St. Leger, Geoffrey

Access DB# 95664

# SEARCH REQUEST FORM

Scientific and Technical Information Center
Requester's Full Name: Gwen Liang Examiner #: 79/80 Date: 6-3-03  Art Unit: 3/12 Phone Number 305-398 Serial Number: 09/82433  Mail Box and Bldg/Room Location: GKI 4835 Results Format Preferred (circle) PAPER DISK E-MAIL
If more than one search is submitted, please prioritize searches in order of need.
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.
Title of Invention: Rule & Analyzer System and Method for Evaluating and Ranking Inventors (please provide full names):
TIFFT, William Watson
Earliest Priority Filing Date: 10/19/2000
*For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.
Concept = A (1-2)
Concept: $A(1-2)$ Focus: $A(3)$
Claim: 1 (B)
* Rafocus
+ Assignop: Felipsys Corporation

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STAFF USE ONLY	Type of Search	Vendors and cost where applicable
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Searcher Phone #: 303-800	AA Sequence (#)	Dialog :
Searcher Location: 6133		Questel/Orbit
	Bibliographic	Dr.Link
Date Completed: 6/10/3	Litigation	Lexis/Nexis
Searcher Prep & Review Time:	Fulltext	Sequence Systems
Clerical Prep Time:	Patent Family	WWW/Internet
Online Time: 1.5 hours	Other	Other (specify)

June 10, 2003

Dear Ms. Liang,

Attached please find the results of your search request for application #09/692,433. I searched Dialog's foreign patent files, technical databases, product announcement files and general files.

Please let me know if you have any questions.

Regards

Geoffrey St. Leger 4B30/308-7800 File 347: JAPIO Oct 1976-2003/Feb (Updated 030603) (c) 2003 JPO & JAPIO File 350:Derwent WPIX 1963-2003/UD,UM &UP=200336

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Set	Items	Description
S1	724621	RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
	3	OR PLAN OR PLANS OR POLICY OR POLICIES OR QUERY OR SEARCH
S2	24752	S1(5N)(PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV?
	OR	EFFICIEN? OR SUCCESS?)
s3	676	S2(5N) (MEASUR? OR ASSESS? OR EVALUAT? OR ANALYZ? OR ANALYS?
33		
	_	R CHECK??? OR GAUG??? OR QUANTIF? OR JUDG???)
S4	175	S1(10N)STATISTIC? ?
S5	112717	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR SEARCH()EN-
	GI	NE? ?
S6	67	S3 AND S5
s7	52	S6 AND IC=G06F
S8	670327	RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
50	010321	
		OR PLAN OR PLANS OR POLICY OR POLICIES
S9	21087	S8(5N)(PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV?
	OR	EFFICIEN? OR SUCCESS?)
S10	302	S9 AND S5 AND IC=G06F
S11	73	S10 AND (SEARCH? OR QUER???? OR RETRIEV?)
S12	65	S11 NOT S7
S13	514	S1(10N)STATISTIC?
S14	80	S13 AND S5 AND IC=G06F
S15	55	S14 AND (SEARCH? OR QUER???? OR RETRIEV?)
S16	51	S15 NOT (S7 OR S12)

<7/5/4 (Item 4 from file: 347)</pre>

DIALOG(R) File 347: JAPIO

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06154674 \*\*Image available\*\*
PERSONAL ASSET MANAGEMENT SYSTEM

PUB. NO.: 11-096217 [JP 11096217 A] PUBLISHED: April 09, 1999 (19990409)

INVENTOR(s): MATSUO SHUNICHIRO

KUBO KUNIYASU

APPLICANT(s): THE YASUDA TRUST & BANKING CO LTD

PFPS KENKYUKAI KK

APPL. NO.: 09-256543 [JP 97256543] FILED: September 22, 1997 (19970922)

INTL CLASS: G06F-017/60

# ABSTRACT

PROBLEM TO BE SOLVED: To decide a **plan** concerning inheritance and business **succession** based on an **evaluation** result by appropriately evaluating the value of personal assets.

SOLUTION: This system is constituted of an information input part where whole information required for the management of the personal assets is inputted, a database where respective kinds of information required for evaluating the personal assets is stored, an evaluating part 3 for evaluating the personal assets based on information which is stored in the database 2, an inheritance plan generating part 4 for deciding na inheritance portion about an individual inheritance person and an information output part 5 for outputting information which is inputted, stored or decided. Then, the value of the personal assets, which is inputted from the information input part is evaluated by the evaluating part 3 through the use of data stored in the database 2 and a calculation formula, the plan of inheritance, etc., is decided based on an evaluation result and a simulation is executed.

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# 7/5/5 (Item 5 from file: 347)

DIALOG(R) File 347: JAPIO

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05748505 \*\*Image available\*\*
ACTIVE DATABASE MANAGING SYSTEM

PUB. NO.: 10-031605 [JP 10031605 A] PUBLISHED: February 03, 1998 (19980203)

INVENTOR(s): WADA MITSUNORI

APPLICANT(s): OKI ELECTRIC IND CO LTD [000029] (A Japanese Company or

Corporation), JP (Japan)
APPL. NO.: 08-206491 [JP 96206491]
FILED: July 17, 1996 (19960717)

INTL CLASS: [6] G06F-012/00

JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units)

# **ABSTRACT**

PROBLEM TO BE SOLVED: To **efficiently evaluate** the **rules** of respective data items.

SOLUTION: A reception flag 3 is prepared for each data item in a database 10. In initial state, the reception flag 3 is '0'. When the event of write access is generated about a certain data item and that data item generating the event satisfies ECA rules, the reception flag 3 of that data item is turned to '1' by an event dispatcher 1. Afterwards, it is not inspected whether or not the event is to be received during a transaction. Concerning the data item of which the reception flag 3 is '1', on one hand, the reception flag 3 is returned to '0' and based on the conditional expression

'of ECA rules, a transaction 232 for evaluating the data value of that data item is scheduled by a transaction scheduler 2. For the data item of which the reception flag 3 is not set, on the other hand, nothing is performed.

(Item 8 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 014624589 WPI Acc No: 2002-445293/200248 XRPX Acc No: N02-350752 Measuring clinical effectiveness of diagnostic systems involves search and assessment program for success -oriented statistical evaluation of all patient files for defined illness or diagnosis Patent Assignee: SIEMENS AG (SIEI ) Inventor: KUTH R; NEMETH R Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Applicat No Kind Kind Date Date Week DE 10048422 A1 20020425 DE 1048422 Α 20000929 200248 B Priority Applications (No Type Date): DE 1048422 A 20000929 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes DE 10048422 4 G06F-017/60 A1 Abstract (Basic): DE 10048422 A1 NOVELTY - The method involves the use of patient files stored in a central database and containing the diagnostic systems used, the therapies and the progress of the illness. A search and assessment program for success -oriented statistical evaluation of all patient files for a defined illness or admission diagnosis is performed to determine the relevant use of the system. DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: an arrangement for implementing the method. USE - For measuring clinical effectiveness of diagnostic systems. ADVANTAGE - Measurement takes place without the specific involvement of an operator and hence without operator subjectivity. pp; 4 DwgNo 0/1 Title Terms: MEASURE; CLINICAL; EFFECT; DIAGNOSE; SYSTEM; SEARCH; ASSESS; PROGRAM; SUCCESS; ORIENT; STATISTICAL; EVALUATE; PATIENT; FILE; DEFINE; ILL; DIAGNOSE Derwent Class: P31; S05; T01 International Patent Class (Main): G06F-017/60 International Patent Class (Additional): A61B-019/00 File Segment: EPI; EngPI (Item 10 from file: 350) 7/5/18 DIALOG(R)File 350:Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 014491636 WPI Acc No: 2002-312339/200235 XRPX Acc No: N02-244969 Measuring device has memory with large storage capacity for storing measurement data which are selectively searched based on designated search conditions, and displayed Patent Assignee: YOKOGAWA DENKI KK (YOKG ) Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Date Applicat No Kind Date Kind JP 2002071390 A 20020308 JP 2000258938 20000829 200235 B Α Priority Applications (No Type Date): JP 2000258938 A 20000829

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

Abstract (Basic): JP 2002071390 A

NOVELTY - A designation unit (1) specifies conditions for search of selected measurement data among several measurement data stored in a memory (3). An execution unit (2) executes search process of the measurement data based on the designated search conditions. A display unit (4) displays the search result.

USE - Measuring device with measurement data storage function.

ADVANTAGE - Provides flexible and **efficient measurement** data

search functions and provides freedom in designating search

conditions.

DESCRIPTION OF DRAWING(S) - The figure shows a basic component diagram of the measuring device. (Drawing includes non-English language text).

Designation unit (1) Execution unit (2) Memory (3) Display unit (4)

pp; 8 DwgNo 1/7

Title Terms: MEASURE; DEVICE; MEMORY; STORAGE; CAPACITY; STORAGE; MEASURE; DATA; SELECT; SEARCH; BASED; DESIGNATED; SEARCH; CONDITION; DISPLAY

Derwent Class: S02; T01

International Patent Class (Main): G01D-009/00

International Patent Class (Additional): G06F-017/30

File Segment: EPI

# 7/5/21 (Item 13 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014379936 \*\*Image available\*\*
WPI Acc No: 2002-200639/200226

XRPX Acc No: NO2-152698

Image search method in computer, involves updating weighting information corresponding to searched image based on evaluation with respect to searched image

Patent Assignee: YAMAHA MOTOR CO LTD (YMHA ) Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week JP 2002032410 A 20020131 JP 2000215275 A 20000717 200226 B

Priority Applications (No Type Date): JP 2000215275 A 20000717

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes JP 2002032410 A 18 G06F-017/30

Abstract (Basic): JP 2002032410 A

NOVELTY - An image is searched from a database, based on the characteristic and weighting information of the input search key. An evaluation with respect to the searched image is input. The weighting information corresponding to the searched image, is updated based on the evaluation result.

 ${\tt DETAILED}$  <code>DESCRIPTION</code> - <code>INDEPENDENT</code> <code>CLAIMS</code> are also included for the following:

- (a) Image search device;
- (b) Audio search device;
- (c) Lexicon search device

USE - For searching images such as pictures, photographs stored in computer.

ADVANTAGE - By updating the weighting information of the images based on the evaluation of searched image, the image search efficiency is improved.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of image search process. (Drawing includes non-English language text).

pp; 18 DwgNo 6/13

\*Title Terms: IMAGE; SEARCH; METHOD; COMPUTER; UPDATE; WEIGHT; INFORMATION;

CORRESPOND; SEARCH; IMAGE; BASED; EVALUATE; RESPECT; SEARCH; IMAGE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06T-001/00

File Segment: EPI

7/5/22 (Item 14 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014379826 \*\*Image available\*\*

WPI Acc No: 2002-200529/200226

XRPX Acc No: N02-152588

Exclusion control method for database system, involves selecting optimum access plan, based on evaluated cost of each access plan containing simultaneous transaction processing efficiency

Patent Assignee: RICOH KK (RICO )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 2002032249 A 20020131 JP 2000219745 A 20000719 200226 B

Priority Applications (No Type Date): JP 2000219745 A 20000719

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2002032249 A 15 G06F-012/00

Abstract (Basic): JP 2002032249 A

NOVELTY - Enquiry optimization access plan is produced based on the generated lock process procedure, for performing simultaneous transaction execution control operation. The cost of the access plan containing simultaneous transaction execution efficiency is evaluated for each access plan . An optimum access plan is selected, based on the evaluated cost of the access plans.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

- (a) Recorded medium storing exclusion control program;
- (b) Exclusion controller;
- (c) Exclusion control program;
- (d) Database system

USE - For exclusion controller (claimed) for performing simultaneous execution control of a **database** system (claimed) based on relational model.

ADVANTAGE - Optimizes the transaction execution efficiency by selecting optimum access plan.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of exclusion controller. (Drawing includes non-English language text).

pp; 15 DwgNo 2/4

Title Terms: EXCLUDE; CONTROL; METHOD; DATABASE; SYSTEM; SELECT; OPTIMUM; ACCESS; PLAN; BASED; EVALUATE; COST; ACCESS; PLAN; CONTAIN; SIMULTANEOUS; TRANSACTION; PROCESS; EFFICIENCY

Derwent Class: T01

International Patent Class (Main): G06F-012/00

International Patent Class (Additional): G06F-015/00; G06F-017/30

File Segment: EPI

# 7/5/24 (Item 16 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014357022 \*\*Image available\*\*
WPI Acc No: 2002-177723/200223

XRPX Acc No: N02-135305

Patent information management device for recording of patent has total device which obtains total of search results from public-knowledge

 reference and application document databases into predetermined format Patent Assignee: FUJITSU LTD (FUIT ); SHIN CATERPILLAR MITSUBISHI LTD (CATE ) Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Applicat No Kind Date Kind Date Week JP 2002024284 A 20020125 JP 2000206916 A 20000707 200223 B Priority Applications (No Type Date): JP 2000206916 A 20000707 Patent Details: Main IPC Patent No Kind Lan Pg Filing Notes JP 2002024284 A 37 G06F-017/30 Abstract (Basic): JP 2002024284 A NOVELTY - An integrator (25) combines the search results from a public-knowledge reference database (2A-1,2A-2) and an application document database (2B-3) after an item order conversion. A total device (26) obtains the total of the search results from the public-knowledge reference database and the application document database into the predetermined format of the total item after the integration process. DETAILED DESCRIPTION - The data converters (23A, 23B) convert the common writing book-data into the item order of a total item and into the same order of the total item among the total device. INDEPENDENT CLAIMS are also included for the following: (a) a patent-information total output method; (b) a patent-information total output device; (c) and a computer-readable recording medium which stores a patent information management program. USE - Applicable for recording of patent information. ADVANTAGE - Attains suppression of number of artificial operation in combination of search results from public-knowledge reference database and application document database . Enables simple search result analysis and efficient determination of effective patent strategy due to combination of writing book data. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of component of a patent information management system. (Drawing includes non-English language text). Public-knowledge reference database (2A-1,2A-2) Application document database (2B-3) Data converters (23A, 23B) Integrator (25) Total device (26) pp; 37 DwgNo 1/31 Title Terms: PATENT; INFORMATION; MANAGEMENT; DEVICE; RECORD; PATENT; TOTAL ; DEVICE; OBTAIN; TOTAL; SEARCH; RESULT; PUBLIC; REFERENCE; APPLY; DOCUMENT; PREDETERMINED; FORMAT Derwent Class: T01 International Patent Class (Main): G06F-017/30 International Patent Class (Additional): G06F-017/60; G06F-019/00 File Segment: EPI (Item 19 from file: 350) DIALOG(R)File 350:Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 014159216 WPI Acc No: 2001-643444/200174 XRPX Acc No: N01-481432 Proposed type information display method for internet, involves displaying search result by analyzing databases based on new search conditions provided by search person Patent Assignee: I FRONTIER KK (IFRO-N) Number of Countries: 001 Number of Patents: 001 Patent Family: Kind Date Applicat No Kind Date Patent No JP 2001256250 A 20010921 JP 200066622 A 20000310 200174 B

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Priority Applications (No Type Date): JP 200066622 A 20000310
Patent Details:
Patent No Kind Lan Pg
                       Main IPC
                                    Filing Notes
JP 2001256250 A 3 G06F-017/30
Abstract (Basic): JP 2001256250 A
        NOVELTY - The information for access by a search person registered
    as member, is stored in a database . The search result is displayed by
    analyzing the database based on new search conditions provided by the
   search person.
        USE - For displaying real estate, employment and goods purchasing
   information internet.
        ADVANTAGE - The search result required for search persons are
   provided efficiently by analyzing the databases based on new
    search condition provided by the person.
        pp; 3 DwgNo 0/0
Title Terms: PROPOSED; TYPE; INFORMATION; DISPLAY; METHOD; DISPLAY; SEARCH;
  RESULT; BASED; NEW; SEARCH; CONDITION; SEARCH; PERSON
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI
 7/5/31
            (Item 23 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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013612326
            **Imagè available**
WPI Acc No: 2001-096534/200111
XRPX Acc No: N01-073360
  Information retrieval system extracts information from dictionary and
  database based on search request determined corresponding to user's
  intention
Patent Assignee: VICTOR CO OF JAPAN (VICO )
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No Kind Date
                            Applicat No
                                          Kind Date
JP 2000331022 A 20001130 JP 99141266
                                           Α
                                                19990521 200111 B
Priority Applications (No Type Date): JP 99141266 A 19990521
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                    Filing Notes
JP 2000331022 A 11 G06F-017/30
Abstract (Basic): JP 2000331022 A
       NOVELTY - Analyzer (13) analyzes character row extracted from
    user's input using internal dictionary (14) to extract user's intent.
    Interactive controller (15) determines search request communicated to
   server side communication controller (26) which communicates request to
   dictionary and database search servers (23,25) and information
    extracted based on request, are communicated to interactive controller.
        USE - For providing information corresponding to demand of user, by
    searching database using natural language.
        ADVANTAGE - Information from database are retrieved effectively
    , based on search request determined corresponding to analysis of
    user's input speech, hence there is no restriction on user's
    vocabulary, and cost of internal dictionary of the system is reduced.
        DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of
    information retrieval system.
        Analysis unit (13)
        Internal dictionary (14)
        Interactive control unit (15)
        Dictionary (22)
        Servers (23, 25)
        Database (24)
        Communication control unit (26)
        pp; 11 DwgNo 1/4
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·Title Terms: INFORMATION; RETRIEVAL; SYSTEM; EXTRACT; INFORMATION;
  DICTIONARY; DATABASE; BASED; SEARCH; REQUEST; DETERMINE; CORRESPOND;
  USER; INTENTIONAL
Derwent Class: T01
International Patent Class (Main): G06F-017/30
International Patent Class (Additional): G06F-009/44; G06F-013/00;
  G06F-017/28
File Segment: EPI
 7/5/33
            (Item 25 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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013465237
             **Image available**
WPI Acc No: 2000-637180/200061
Related WPI Acc No: 2002-187493
XRPX Acc No: N00-472478
  Query processing method in relational database management system,
  involves identifying if partition properties of both query evaluation
  plans have interesting partition property values
Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )
Inventor: LOHMAN G M; SHEKITA E J; SIMMEN D E; URATA M S
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No
             Kind Date
                              Applicat No
                                            Kind
                                                    Date
                                                            Week
              A 20000718 US 97885073
US 6092062
                                            A 19970630 200061 B
Priority Applications (No Type Date): US 97885073 A 19970630
Patent Details:
Patent No Kind Lan Pg Main IPC US 6092062 A 21 G06F-017/30
                                      Filing Notes
Abstract (Basic): US 6092062 A
        NOVELTY - Determination is done whether the query evaluation plans
     (QEPA, QEPB) relatively have interesting partition property values. When
    existence of property values is determined, the equivalence between the
    values is analyzed.
        DETAILED DESCRIPTION - A query which is executable in connection
    with partitioned data tables, is received. Several interesting
    partition property values, each indicating direct benefit for execution
    of anticipated reactor of query are generated. Several evaluation plans
    for consideration in execution of all or portion of the query are
    generated. An INDEPENDENT CLAIM is also included for relational
    database management system.
        USE - For efficient evaluation of structured query language
    statement processed in relational database management systems.
        ADVANTAGE - Efficiently evaluates complex query statements by
    careful consideration of query operator properties.
        DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram of
    processing steps executed by computer processing system.
        pp; 21 DwgNo 9/10
Title Terms: QUERY; PROCESS; METHOD; RELATED; DATABASE; MANAGEMENT;
  SYSTEM; IDENTIFY; PARTITION; PROPERTIES; QUERY; EVALUATE; PLAN; INTEREST;
   PARTITION; PROPERTIES; VALUE
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI
             (Item 26 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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013302799
             **Image available**
WPI Acc No: 2000-474734/200041
XRPX Acc No: N00-354145
  Query evaluation method for distributed semi-structured database ,
```

involves identifying a part of separated portions contributing to final query result based on combined single graph, to generate final query result

Patent Assignee: AT & T CORP (AMTT )

Inventor: SUCIU D

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Date Applicat No Kind Kind Week Date 20000613 US 9766471 US 6076087 Α Α 19971126 200041 B US 9859640 Α 19980413

Priority Applications (No Type Date): US 9766471 P 19971126; US 9859640 A 19980413

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6076087 A 41 G06F-017/30 Provisional application US 9766471

Abstract (Basic): US 6076087 A

NOVELTY - The query for each of the separated portions of database is evaluated. Based on evaluated queries, respective accessibility graphs are generated corresponding to each of the separated portions. The accessibility graphs are combined to a single graph. Based on combined single graph, the parts of separated portions that contribute to final query result are identified, to generate the final query result.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for network operating system generating a final query result of  ${\tt database}$  .

USE - For evaluating query used for distributed semi-structured database in internet or intranetworks.

ADVANTAGE - The client terminal receives the accessibility graphs from all the terminals and constructs an accessibility graph for complete distributed database using simple technique. Evaluates query for distributed database in an efficient manner since the total number of communication steps among the terminals is independent of the contents of the distributed database. The total number of data transferred among the terminals depends on the total number of interrelationship of the database portions among the terminals and the size of the evaluation result.

DESCRIPTION OF DRAWING(S) - The figure shows the accessibility graphs connected to each other.

pp; 41 DwgNo 10/42

Title Terms: QUERY; EVALUATE; METHOD; DISTRIBUTE; SEMI; STRUCTURE; DATABASE; IDENTIFY; PART; SEPARATE; PORTION; CONTRIBUTE; FINAL; QUERY; RESULT; BASED; COMBINATION; SINGLE; GRAPH; GENERATE; FINAL; QUERY; RESULT Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

# 7/5/35 (Item 27 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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013051517 \*\*Image available\*\*
WPI Acc No: 2000-223371/200019
Related WPI Acc No: 1999-131656
XRPX Acc No: N00-167403

Query optimizing and processing method for database management system in computer network

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )
Inventor: LEUNG T Y; LUI A C; PIRAHESH M H; TRUONG T C

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Applicat No Kind Date Kind Date Week US 97884697 US 6032143 20000229 Α 19970630 200019 B Α US 98206194 Α 19981204

· 19981204 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6032143 A 15 G06F-017/30 Cont of application US 97884697 Cont of patent US 5864840 Abstract (Basic): US 6032143 A NOVELTY - One alternative query plan is selected to process a query depending on other alternative query plans generated based on a rewritten query to compare the table columns on a set of nodes in a computer network. The method involves receiving a query containing a sub-query. The table columns in the sub-query are compared. USE - For database management system in computer network. ADVANTAGE - Converts sub-queries to scalar sub-queries. Allows sending of upper tables to lower tables and vice-versa. Increases maximum processing efficiency . Evaluates and determines optimal plan for each alternative. DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of an query optimizing and processing method. pp; 15 DwgNo 5/5 Title Terms: QUERY; PROCESS; METHOD; DATABASE; MANAGEMENT; SYSTEM; COMPUTER: NETWORK Derwent Class: T01 International Patent Class (Main): G06F-017/30 File Segment: EPI 7/5/36 (Item 28 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 013030179 \*\*Image available\*\* WPI Acc No: 2000-202030/200018 Related WPI Acc No: 1996-213308; 2000-186682; 2000-202031 XRPX Acc No: N00-150511 Data analysis method of databases , involves evaluating relationship between chosen items, and outputting data items with highest evaluation Patent Assignee: HITACHI LTD (HITA ) Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Kind Date Applicat No Kind Date Week JP 2000039999 A 20000208 JP 94239437 A 1994090 200018 B JP 99158818 A 19940907 Priority Applications (No Type Date): JP 94239437 A 19940907; JP 99158818 A 19940907 Patent Details: Patent No Kind Lan Pq Main IPC Filing Notes JP 2000039999 A 20 G06F-009/44 Div ex application JP 94239437 Abstract (Basic): JP 2000039999 A NOVELTY - The numerical value of data item used for IF node and THEN node of IF-THEN rule is chosen and converted to symbol. The relationship between chosen data items is evaluated, and the data item with highest value is determined and output. DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for data analysis apparatus. USE - For databases . ADVANTAGE - Effective drafting of marketing strategy is performed by analysis of customer database. Characteristic of data items is expressed accurately, and high utilization value is provided to user as the data are converted to symbol before evaluation. DESCRIPTION OF DRAWING(S) - The figure shows block diagram of data analysis system. Dwg.4/16

Title Terms: DATA; ANALYSE; METHOD; EVALUATE; RELATED; CHOICE; ITEM; OUTPUT

Derwent Class: T01
International Patent Class (Main): G06F-009/44

; DATA; ITEM; HIGH; EVALUATE; VALUE

·File Segment: EPI

J; WILHITE D G

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(Item 30 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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            **Image available**
012813651
WPI Acc No: 1999-619882/199953
XRPX Acc No: N99-457171
  Hypothetical information query evaluating method for database system
Patent Assignee: LUCENT TECHNOLOGIES INC (LUCE )
Inventor: GRIFFIN T G; HULL R B
Number of Countries: 001 Number of Patents: 001
Patent Family:
Patent No
                             Applicat No
             Kind
                   Date
                                            Kind
                                                  Date
                                                            Week
US 5978789
             A 19991102 US 97852652
                                           Α
                                                 19970507 199953 B
Priority Applications (No Type Date): US 97852652 A 19970507
Patent Details:
Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
US 5978789
             Α
                   21 G06F-017/30
Abstract (Basic): US 5978789 A
        NOVELTY - One or more algebraic equivalences involving explicit
    substitutions, are applied to generate a query that is equivalent to
    hypothetical query. The subset of explicit substitutions represents a
    hypothetical database state change. Then, the equivalent query is
    directly evaluated.
        DETAILED DESCRIPTION - The amount of time required to directly
    evaluate each of the queries in the set of additional queries, is
    estimated. A particular query from the set of additional queries, which
    has the lowest estimated evaluation time, is selected for direct
    evaluation. Hypothetical query is in a normal form for direct
    evaluation where in the normal form indicates that one or more
    hypothetical state expressions of the query correspond to explicit
    substitutions. An INDEPENDENT CLAIM is also included for hypothetical
    query evaluation apparatus.
        USE - For evaluating hypothetical information query in database
    system.
        ADVANTAGE - Evaluation process is facilitated efficiently by
    configuring the original hypothetical query in a normal form such
    that each hypothetical state expression of the query is specified by
    explicit substitutions.
        DESCRIPTION OF DRAWING(S) - The figure shows the family of
    equivalences in an exemplary set of hypothetical query language
    expressions.
        pp; 21 DwgNo 2A-2C/7
Title Terms: HYPOTHESIS; INFORMATION; QUERY; EVALUATE; METHOD; DATABASE;
Derwent Class: T01
International Patent Class (Main): G06F-017/30
File Segment: EPI
            (Item 31 from file: 350)
DIALOG(R) File 350: Derwent WPIX
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012804660
             **Image available**
WPI Acc No: 1999-610890/199952
Related WPI Acc No: 1999-610876
XRPX Acc No: N99-450139
  Precomputed database processing method for user query management
Patent Assignee: INFORMIX SOFTWARE INC (INFO-N); INT BUSINESS MACHINES CORP
Inventor: COLBY L S; COLE R L; HASLAM E P; JAZAYERI N; JOHNSON G; MCKENNA W
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·Number of Countries: 024 Number of Patents: 009 Patent Family: Patent No Applicat No Kind Date Kind Date Week WO 9950762 Al 19991007 WO 99US6297 A 19990325 199952 B AU 9931985 19991018 AU 9931985 Α A 19990325 200010 EP 1066574 A1 20010110 EP 99914054 Α 19990325 200103 WO 99US6297 19990325 Α US 20010013030 A1 20010809 US 9849784 Α 19980327 200147 US 9879670 Α 19980327 Α US 9879671 19980327 US 9879679 Α 19980327 US 99277034 Α 19990325 19990325 BR 9909896 BR 999896 Α 20010911 Α 200162 WO 99US6297 Α 19990325 WO 99US6297 JP 2002510088 W 20020402 Α 19990325 200225 JP 2000541606 Α 19990325 US 9849784 US 20020077997 A1 20020620 Α 19980327 200244 US 9879670 19980327 Α US 9879671 19980327 Α US 9879679 Α 19980327 US 99277040 A 19990325 19980327 US 6480836 В1 20021112 US 9849784 Α 200278 19980327 US 9879670 Α US 9879671 Α 19980327 US 9879679 Α 19980327 US 99277041 Α 19990325 20021210 US 6493699 US 9849784 19980327 B2 Α 200301 US 9879670 Α 19980327 US 9879671 Α 19980327 US 9879679 Α 19980327 US 99277034 Α 19990325 Priority Applications (No Type Date): US 9879679 P 19980327; US 9849784 A 19980327; US 9879670 P 19980327; US 9879671 P 19980327; US 99277034 A 19990325; US 99277040 A 19990325; US 99277041 A 19990325 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes A1 E 57 G06F-017/30 WO 9950762 Designated States (National): AU BR CA JP MX Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE AU 9931985 Based on patent WO 9950762 Α A1 E EP 1066574 G06F-017/30 Based on patent WO 9950762 Designated States (Regional): DE ES FR GB IE IT NL SE US 20010013030 A1 G06F-007/00 Cont of application US 9849784 Provisional application US 9879670 Provisional application US 9879671 Provisional application US 9879679 Cont of patent US 6199063 BR 9909896 G06F-017/30 Based on patent WO 9950762 Α 68 G06F-017/30 Based on patent WO 9950762 JP 2002510088 W US 20020077997 A1 G06F-007/00 Cont of application US 9849784 Provisional application US 9879670 Provisional application US 9879671 Provisional application US 9879679 US 6480836 G06F-017/30 Cont of application US 9849784 В1 Provisional application US 9879670 Provisional application US 9879671 Provisional application US 9879679 Cont of patent US 6199063 US 6493699 В2 G06F-017/30 Cont of application US 9849784 Provisional application US 9879670 Provisional application US 9879671 Provisional application US 9879679 Cont of patent US 6199063

Abstract (Basic): WO 9950762 Al

13

NOVELTY - The user's query on specific database is analyzed and a

common candidate suggestion is generated in sub-language (SQL). Then, an analysis space consisting of all possible subsets of suggestions is defined based on the stored user query **database**. The precomputation strategy and suggestions are characterized in the analysis space.

DETAILED DESCRIPTION - During defining suggestions, a specific formula is used depending on the user defined subset data. A log record is generated based on the received user queries. Based on the record, specific suggestion data for modifying the user query is identified. The common suggestions is generated based on the meta data comprising user specified hierarchical data. A specific graph representing hierarchical relationship between the suggestions is indicated in the analysis space. An INDEPENDENT CLAIM is also included for precomputed database processor.

USE — For user query management in decision support system and retail management in stores using relational  ${\tt database}$  management system (RDBMS).

ADVANTAGE - Enables evaluation of optical precomputed aggregates, by effective analysis of user query. Reduces analysis time, as analysis is carried out based on the user defined subset data. Due to the query rewriting facility, aggregate performance of database is modified by database administrator without affecting queries.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart explaining the precomputed database managing method.

pp; 57 DwgNo 7A/13

Title Terms: DATABASE; PROCESS; METHOD; USER; QUERY; MANAGEMENT

Derwent Class: T01

International Patent Class (Main): G06F-007/00; G06F-017/30

File Segment: EPI

# 7/5/41 (Item 33 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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012603227 \*\*Image available\*\*
WPI Acc No: 1999-409331/199935

XRPX Acc No: N99-305706

Information extraction device for computer, internet - performs search on predetermined database based on designated character or keyword, analyzes sentences containing search word and chooses specific data from search result

Patent Assignee: TOSHIBA KK (TOKE ); KINOSHITA S (KINO-I); SAKO T (SAKO-I)

Inventor: KINOSHITA S; SAKO T

Number of Countries: 002 Number of Patents: 005

Patent Family:

Patent No Kind Date Applicat No Kind Date Week JP 11161682 A 19990618 JP 98139539 A 19980521 199935 B US 20020002547 A1 20020103 US 98161383 A 19980928 200207 B2 20020827 US 98161383 A 19980928 200259 US 6442540 US 98161383 A 19980928 200301 US 20020184204 A1 20021205 US 2002189536 20020708 Α US 20020194156 A1 20021219 US 98161383 Α 19980928 200303 US 2002189482 Α 20020708

Priority Applications (No Type Date): JP 97263606 A 19970929

Patent Details:

Patent No Kind Lan Pq Main IPC Filing Notes

JP 11161682 A 17 G06F-017/30 US 20020002547 A1 G06F-007/00

US 6442540 B2 G06F-017/30

US 20020184204 A1 G06F-007/00 Div ex application US 98161383 Div ex patent US 6442540

US 20020194156 A1 G06F-017/30 Div ex application US 98161383 Div ex patent US 6442540

Abstract (Basic): JP 11161682 A

NOVELTY - The character data of the word in a document or an idiom is designated, based on which the **search** is **performed**. The

sentences containing these search keyword data are analyzed . Based on the search analysis result, the specific data suitable for designated character or keyword is extracted. DETAILED DESCRIPTION -INDEPENDENT CLAIMS are also included for the following: information retrieval method; recording medium for storing information retrieval program

USE - For computer, internet.

ADVANTAGE - Enables efficient extraction of information. Reduces load on user. DESCRIPTION OF DRAWING(S) - The diagram shows the block diagram of the information retrieval apparatus.

Dwg.1/32

Title Terms: INFORMATION; EXTRACT; DEVICE; COMPUTER; PERFORMANCE; SEARCH; PREDETERMINED; DATABASE; BASED; DESIGNATED; CHARACTER; KEYWORD; ANALYSE ; SENTENCE; CONTAIN; SEARCH; WORD; CHOICE; SPECIFIC; DATA; SEARCH; RESULT

Derwent Class: T01

F

International Patent Class (Main): G06F-007/00; G06F-017/30 International Patent Class (Additional): G06F-017/27; G06F-017/28

File Segment: EPI

#### 7/5/46 (Item 38 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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\*\*Image available\*\* 011325264 WPI Acc No: 1997-303168/199728

XRPX Acc No: N97-250749

Rule generation method - performs rule evaluation processing for validity evaluation of appearance area forming rule express

Patent Assignee: HITACHI LTD (HITA )

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week A 19970502 JP 95266774 19951016 199728 B JP 9114669 Α

Priority Applications (No Type Date): JP 95266774 A 19951016 Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

12 G06F-009/44 JP 9114669 Α

Abstract (Basic): JP 9114669 A

The methods performs analysis from the data which consists of collection of records stored in a database (2). A record extraction processing (10) performs random extraction from the collection of records responding to the predetermined rule generation conditions. The number of detection of the appearance area of the record with the defined characteristic as rule generation condition is carried out. A rule generation processing (20) forms the rule express consisting of the appearance areas of a condition part and a conclusion part and uses all records of data for analysis . A rule evaluation processing (30) is performed for validity evaluation of the area forming rule expresses.

ADVANTAGE - Satisfies rule generation conditions. Generates rule for reflecting characteristic of entire data or analysis.

Title Terms: RULE; GENERATE; METHOD; PERFORMANCE; RULE; EVALUATE; PROCESS; VALID; EVALUATE; APPEAR; AREA; FORMING; RULE; EXPRESS

Derwent Class: T01

International Patent Class (Main): G06F-009/44

International Patent Class (Additional): G06F-017/30

File Segment: EPI

# (Item 40 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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\*\*Image available\*\* 010844923

·WPI Acc No: 1996-341876/199634

XRPX Acc No: N96-287800

Data array analysis appts. for quantitive database - includes link pointers associated with diagnostic records and relation data items so that user can select diagnostic records and retrieve corresponding data items

Patent Assignee: AMADO A (AMAD-I)

Inventor: AMADO A

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 5537590 A 19960716 US 93102581 A 19930805 199634 B

Priority Applications (No Type Date): US 93102581 A 19930805

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5537590 A 220 G06F-017/00

Abstract (Basic): US 5537590 A

The apparatus includes memory for storing a quantitive database as a table in a relational database. A program is executed on a computer, for controlling the computer to receive user input defining one or more analysis rules to be performed on data subsets. The subsets are analysed in accordance with user defined analysis rules to generate diagnostic records. User programmable link pointers for each diagnostic record are generated, linking a diagnostic to the user selected subset data.

The diagnostic records are held in a diagnostic **database** in memory. Routines are included for controlling the computer to display windows, one window displays data items from the relational **database** and another displays diagnostic records. A pointer, displayed in the diagnostic window, receives and processes user data such that records in the diagnostic window can be selected and the corresponding data items can be displayed in the first window.

ADVANTAGE - Provides time and cost reductions. Allows data organisation by function, action and end-user preferences. Deals with vast amounts of data, chaining recommendations and logical expert interfaces in structured database. Presents sorted, filtered and structured lists of diagnostics. Allows integration with other applications.

Dwg.2/93

Title Terms: DATA; ARRAY; ANALYSE; APPARATUS; QUANTITATIVE; **DATABASE**; LINK; POINT; ASSOCIATE; DIAGNOSE; RECORD; RELATED; DATA; ITEM; SO; USER; CAN; SELECT; DIAGNOSE; RECORD; RETRIEVAL; CORRESPOND; DATA; ITEM

Derwent Class: T01

International Patent Class (Main): G06F-017/00

International Patent Class (Additional): G06F-017/30

File Segment: EPI

12/5/12 (Item 12 from file: 347)

DIALOG(R) File 347: JAPIO

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04505984 \*\*Image available\*\*

SYSTEM AND METHOD FOR DATA BASE MATERIAL

PUB. NO.: 06-149884 [JP 6149884 A] PUBLISHED: May 31, 1994 (19940531)

INVENTOR(s): TERAOKA MASATO

YAMADA MICHIKO

APPLICANT(s): FUJI ROJITETSUKU KK [456965] (A Japanese Company or

Corporation), JP (Japan)

APPL. NO.: 04-314367 [JP 92314367] FILED: October 30, 1992 (19921030)

INTL CLASS: [5] G06F-015/40; G06F-015/40; G06F-015/18

JAPIO CLASS: 45.4 (INFORMATION PROCESSING -- Computer Applications)
JOURNAL: Section: P, Section No. 1794, Vol. 18, No. 466, Pg. 15,

August 30, 1994 (19940830)

# ABSTRACT

PURPOSE: To easily retrieve a data base and to acquire desired information even by a person having little knowledge for the structure and content of the data base.

CONSTITUTION: When ( retrieval based on inference) is selected by using a mouse 11 on an initial screen displayed on a display 13, an intake screen to inquire the summary of the bodily status of a person to be helped is displayed. When a user answers to it, the inference is performed by an inference device 20, thence, an inference rule to be executed is selected. Those inference rules include self-reliance help level evaluation, help main person level evaluation, help supporter level evaluation, etc. Inquiry display and answer input of interactive format in an input/output console 10 are performed, and a selected inference rule is executed. A service retrieval code is introduced based on an inference result, thereby, a service master in the data base 32 is retrieved. It follows that the kind of service in accordance with the state of the person to be helped and status surrounding the person to be helped can be provided.

12/5/18 (Item 18 from file: 347)

DIALOG(R) File 347: JAPIO

APPL. NO.:

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03555627 \*\*Image available\*\*
PLAN-TYPE INFERENCE DEVICE

PUB. NO.: 03-218527 [JP 3218527 A] PUBLISHED: September 26, 1991 (19910926)

INVENTOR(s): TANAKA MASAYUKI

KOMINAMI TAIZO

APPLICANT(s): MATSUSHITA ELECTRIC IND CO LTD [000582] (A Japanese Company

or Corporation), JP (Japan) 01-132340 [JP 89132340] May 25, 1989 (19890525)

FILED: May 25, 1989 (19890525)
INTL CLASS: [5] G06F-009/44; G06F-015/21

JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);

45.4 (INFORMATION PROCESSING -- Computer Applications) Section: P, Section No. 1290, Vol. 15, No. 503, Pg. 125,

JOURNAL: Section: P, Section No. 1290, Vol. 15, December 19, 1991 (19911219)

# ABSTRACT

PURPOSE: To attain high speed plan correction by using alteration data as an input, retrieving only a part influenced by means of alteration data in a previously planned result to automatically correct it.

CONSTITUTION: This device is provided with a **data base** 1 storing plan data and alteration data, a knowledge base 2 storing a procedure required for the generation and the alteration of the plan and a working memory 7

which tenta tively stores the result on the way of inference. Further the device is provided with an inference engine 6 having a plan generation procedure 4 generating the plan and a local plan generation procedure 5 altering the plan based on the data base 1, the knowledge base 2 and the working memory 7, and a central proceeding unit 10 controlling the whole. When the plan is altered, the part influenced by alteration data is retrieved from the working memory 7 and the object of alteration is eliminated. Then, the plan generation procedure is recurcively executed to alter the plan. Thus, the plan can efficiently be altered.

12/5/21 (Item 21 from file: 347)

DIALOG(R) File 347: JAPIO

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02387433 \*\*Image available\*\*

EXPERT SYSTEM

PUB. NO.: 63-004333 [JP 63004333 A] PUBLISHED: January 09, 1988 (19880109)

INVENTOR(s): IKEDA JUN

FUKUMOTO AKIRA TAI ICHIRO

APPLICANT(s): TOSHIBA CORP [000307] (A Japanese Company or Corporation), JP

(Japan)

APPL. NO.: 61-147678 [JP 86147678] FILED: June 24, 1986 (19860624)

INTL CLASS: [4] G06F-007/28; G06F-009/44

JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);

45.2 (INFORMATION PROCESSING -- Memory Units)

JOURNAL: Section: P, Section No. 715, Vol. 12, No. 203, Pg. 56, June

11, 1988 (19880611)

### ABSTRACT

PURPOSE: To improve rule retrieval efficiency by calculating a frequency which is used so far for deduction for each rule in a rule data base and setting the order of rule retrieval according to the used frequency.

CONSTITUTION: A rule retrieval efficiency increasing mechanism 5 stores the use frequencies (f) of all diagnostic rules (r). When a signal for the use of some diagnostic rule ri is received from a deduction mechanism 2, '1' is added to the use frequency fi of the diagnostic rule ri to update the use frequency fi. When the frequency is updated, the use frequency fj of a diagnostic rule rj having priority Pi-1 which is one higher than application priority Pi set currently for the diagnostic rule ri is read out and the read use frequency fj of the diagnostic rule ri is compared with the use frequency fi of the updated diagnostic rule ri; when fj<fi, the application priority of the rule ri is set to Pi-1 and the application priority of the rule rj is set to Pi.

# 12/5/36 (Item 15 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014111890

WPI Acc No: 2001-596102/200167

XRPX Acc No: N01-444352

Method of optimizing the processing of enquiries to a database by detecting patterns in SQL enquiry statements which indicate search

limits and converting the patterns to keys to limit database searches

Patent Assignee: BULL HN INFORMATION SYSTEMS INC (HONE )

Inventor: GRAY J E

Number of Countries: 021 Number of Patents: 003

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 200146864 A1 20010628 WO 2000US34992 A 20001222 200167 B

US 6353821 B1 20020305 US 99472362 A 19991223 200224 EP 1242920 A1 20020925 EP 2000988283 A 20001222 200271

WO 2000US34992 A 20001222

Priority Applications (No Type Date): US 99472362 A 19991223

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 200146864 A1 E 40 G06F-017/30

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

US 6353821 B1 G06F-017/30

EP 1242920 A1 E G06F-017/30 Based on patent WO 200146864 Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

Abstract (Basic): WO 200146864 Al

NOVELTY - WHERE clauses in a **search query** are converted to Conjunctive Normal Form (CNF) lists. Conditions used to access a current table are extracted and a check is made to determine whether more table indexes are to be examined. Key conditions are gathered into an OR-group versus Key Column matrix and checks are made for multi-column index range condition patterns. The best method found is then saved. When all indexes have been examined the best access method found is located and a composite key value is built and a multi-column index accessed using a range condition compare operator. DeMorgan's theorem may be used.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for

- (a) database management software system
- (b) an optimizer for a database management software system
- (c) and a computer readable medium carrying instructions for a software database management optimizer.

USE - Database accessing.

ADVANTAGE - Effectively finds the most efficient access plan .

pp; 40 DwgNo 0/7

Title Terms: METHOD; OPTIMUM; PROCESS; ENQUIRY; DATABASE; DETECT; PATTERN; SQL; ENQUIRY; STATEMENT; INDICATE; SEARCH; LIMIT; CONVERT; PATTERN;

KEY; LIMIT; DATABASE; SEARCH

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

# 12/5/37 (Item 16 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014072259 \*\*Image available\*\*
WPI Acc No: 2001-556472/200162
Related WPI Acc No: 2000-105189

XRPX Acc No: N01-413452

Query executing method in relational database management system, involves optimizing access path for query by determining optimal filter factor using value of each variable in query

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )
Inventor: HADERLE D J; MUKAI J; NAKAGAWA R M; TIE H S
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 6219660 B1 20010417 US 97940245 A 19970930 200162 B
US 99392151 A 19990908

Priority Applications (No Type Date): US 97940245 A 19970930; US 99392151 A 19990908

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6219660 B1 9 G06F-017/30 Cont of application US 97940245 Cont of patent US 6006220

Abstract (Basic): US 6219660 B1

NOVELTY - A query containing variables is received and access path for that query is determined during bind process based on default filter factor. During execution of query , access path is optimized, by determining optimal filter factor using value of each variable in query . A new access path is generated using optimal filter factor, by disregarding previously generated access path based on default filter factor.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

 (a) Query executing system;
 (b) Query executing program
 USE - For retrieving variables from structured query language (SQL) in relational database management system (RDBMS).

ADVANTAGE - Enables selecting on optimal access path for SQL statement using a query complier. The query compiler selects more optimal query execution plan, hence query performance for SQL with variables is greatly improved.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram explaining improved access path determining method.

pp; 9 DwgNo 2/4

Title Terms: QUERY; EXECUTE; METHOD; RELATED; DATABASE; MANAGEMENT; SYSTEM; ACCESS; PATH; QUERY; DETERMINE; OPTIMUM; FILTER; FACTOR; VALUE; VARIABLE; QUERY

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

#### 12/5/38 (Item 17 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014056178 \*\*Image available\*\* WPI Acc No: 2001-540391/200160

XRPX Acc No: N01-401523

Query -plan modification method for computer implemented database management system, involves identifying generated transient views improving performance of query - plan

Patent Assignee: INT BUSINESS MACHINES CORP (IBMC )

Inventor: SUBRAMANIAN N I; VENKATARAMAN S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Kind Date Patent No Applicat No Kind Date US 6275818 B1 20010814 US 9763979 Α 19971106 200160 B US 98186804 A 19981105

Priority Applications (No Type Date): US 9763979 P 19971106; US 98186804 A 19981105

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6275818 В1 24 G06F-007/00 Provisional application US 9763979

Abstract (Basic): US 6275818 B1

NOVELTY - Equivalence classes containing similar sub-plans of query -plan are generated. Transient views containing a union of results from all equivalence class associated sub-plans, are generated. The transient views improving query - plan performance are identified and results for each associated equivalence class sub-plan, are obtained by filtering the identified views.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for queries optimizing apparatus.

USE - For optimizing queries in computer implemented database management system.

ADVANTAGE - By identifying transient views improving query plan, new query plan resulting in improved query performance is efficiently generated. Provides efficient query optimizing technique that can be implemented over existing query processing system in non-intrusive manner.

DESCRIPTION OF DRAWING(S) - The figure shows the flow diagram illustrating the steps performed by cost based optimizer to identify execution steps for efficient **query** processing.

pp; 24 DwgNo 7/11

Title Terms: QUERY; PLAN; MODIFIED; METHOD; COMPUTER; IMPLEMENT; DATABASE; MANAGEMENT; SYSTEM; IDENTIFY; GENERATE; TRANSIENT; VIEW;

IMPROVE; PERFORMANCE; QUERY; PLAN

Derwent Class: T01

International Patent Class (Main): G06F-007/00

File Segment: EPI

# 12/5/41 (Item 20 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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013995467 \*\*Image available\*\*
WPI Acc No: 2001-479682/200152

XRPX Acc No: N01-355184

Information retrieval procedure for electronic program guide in television broadcasting, involves searching data, assigning score to data, correcting score according to search condition, for judging output of data

Patent Assignee: VICTOR CO OF JAPAN (VICO ) Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
JP 2001175675 A 20010629 JP 99360433 A 19991220 200152 B

Priority Applications (No Type Date): JP 99360433 A 19991220

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

JP 2001175675 A 5 G06F-017/30

Abstract (Basic): JP 2001175675 A

NOVELTY - Several data which are **retrieved** sequentially from a **database**, are **searched** based on keywords and **search** conditions of logical operator that connects several keywords, and a score is assigned. The score is corrected according to **search** conditions which show the degree of importance of logical operators connecting the **search** conditions. Based on the corrected score, it is judged whether data is output or not.

USE - For **retrieving** information from electronic program guide used in television broadcast.

ADVANTAGE - The degree of importance is changeable for every search filter. Search can be performed flexibly, efficiently and easily such that priority is given to certain user over other user.

DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of information  ${\tt retrieval}$  procedure. (Drawing includes non-English language text).

pp; 5 DwgNo 2/2

Title Terms: INFORMATION; RETRIEVAL; PROCEDURE; ELECTRONIC; PROGRAM; GUIDE; TELEVISION; BROADCAST; SEARCH; DATA; ASSIGN; SCORE; DATA; CORRECT; SCORE; ACCORD; SEARCH; CONDITION; JUDGEMENT; OUTPUT; DATA

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): H04N-005/445

File Segment: EPI

# 12/5/54 (Item 33 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

011997378 \*\*Image available\*\*

WPI Acc No: 1998-414288/199835 Related WPI Acc No: 1998-348746

XRPX Acc No: N98-322403

Database query optimisation system - Detects redundant expressions

based on expression group attributes

Patent Assignee: TANDEM COMPUTERS INC (TAND ) Inventor: CELIS P; VAISHNAV J; ZELLER H; GRAEFE G Number of Countries: 020 Number of Patents: 003

Patent Family:

Patent No Kind Date Applicat No Kind Date Week WO 9832064 A2 19980723 WO 97US23087 Α 19971215 199835 B 19981006 US 96702106 US 5819255 19960823 Α Α 199847

US 96763407 Α 19961211 US 96773695 Α 19961227

US 5822747 Α 19981013 US 96702106 Α 19960823 199848

Priority Applications (No Type Date): US 96773695 A 19961227; US 96702106 A 19960823; US 96763407 A 19961211

Cited Patents: No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9832064 A2 E 81 G06F-000/00

Designated States (National): CA JP

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

US 5819255 G06F-017/30 Div ex application US 96702106 Α CIP of application US 96763407

US 5822747 G06F-017/30 Α

Abstract (Basic): WO 9832064 A

The system represents the database query as a query tree including one or more levels of logical expressions, each including zero or more logical expressions as inputs. a subset of the inputs represents one or more subtrees, each having a top logical expression and zero or more logical expressions as inputs.

Each level other than the top has one or more logical expressions which are input to a higher level logical expression at a preceding level. Group attributes are then found for each logical expression in a query tree.

ADVANTAGE - Generates optimal plan for executing database query , provides efficient storage compaction scheme for search data structure when searching for optimal plan for database query , avoids generation of redundant expressions when searching for optimal plan for database query .

Dwg.4/15

Title Terms: DATABASE; QUERY; OPTIMUM; SYSTEM; DETECT; REDUNDANT;

EXPRESS; BASED; EXPRESS; GROUP; ATTRIBUTE

Derwent Class: T01

International Patent Class (Main): G06F-000/00; G06F-017/30

File Segment: EPI

#### 12/5/59 (Item 38 from file: 350)

DIALOG(R) File 350: Derwent WPIX

(c) 2003 Thomson Derwent. All rts. reserv.

010716353 \*\*Image available\*\*

WPI Acc No: 1996-213308/199622 Related WPI Acc No: 2000-186682; 2000-202030; 2000-202031

XRPX Acc No: N96-178738

Data analysis method using information storage device such as database device - involves searching of rule with large evaluation scale among multiple generated rules which is then output

Patent Assignee: HITACHI LTD (HITA ); ASHIDA H (ASHI-I); ITO Y (ITOY-I);

MAEDA A (MAED-I); TAKAHASHI Y (TAKA-I); TANIGUCHI Y (TANI-I) Inventor: ASHIDA H; ITO Y; MAEDA A; TAKAHASHI Y; TANIGUCHI Y

Number of Countries: 002 Number of Patents: 004

Patent Family:

Kind Date Patent No Applicat No Kind Date Week JP 8077010 A 19960322 JP 94239437 A 19940907 199622 B US 5761389 A 19980602 US 95470217 A 19950606 199829 US 5940815 A 19990817 US 95470217 A 19950606 199939 US 97993150 A 19971218 US 95470217 A 19950606 US 6321217 B1 20011120 200174 US 97993150 Α 19971218 US 99301595 Α 19990429 Priority Applications (No Type Date): JP 94239437 A 19940907 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes A 20 G06F-009/44 JP 8077010 US 5761389 Α G06F-017/00 US 5940815 G06F-015/18 Cont of application US 95470217 Α Cont of patent US 5761389 US 6321217 Bl G06F-017/00 Cont of application US 95470217 Cont of application US 97993150 Cont of patent US 5761389 Cont of patent US 5940815 Abstract (Basic): JP 8077010 A The method involves usage of numerical data stored in a database (404). An user interface modem (401) enables user to perform specification and correction of parameter required for processing. The generated rule expressing the future of data that is output from a work file (405) is stored in a rule file (407). An execution model (403) uses contents of the rule file and the database . Among data items, the data used in the condition node and the conclusion node of rule is selected. When selected data item possesses numerical value, then, the numerical value is converted into symbol value. Multiple rules expression relation between data items in rule format, is generated. An evaluation scale is computed by which the strength of relation between the data items is calculated. Among many generated candidate rules, a candidate rule with large evaluation state searched and then the searched candidate rule is made to output. ADVANTAGE - Performs optimisation of rule. Expresses feature of data with sufficient accuracy. Provides analysis technique with sufficient versatility. Improves work efficiency . Generates required rule at high speed. Dwg.4/16 Title Terms: DATA; ANALYSE; METHOD; INFORMATION; STORAGE; DEVICE; DATABASE ; DEVICE; SEARCH ; RULE; EVALUATE; SCALE; MULTIPLE; GENERATE; RULE; Derwent Class: T01 International Patent Class (Main): G06F-009/44; G06F-015/18; G06F-017/00 International Patent Class (Additional): G06F-017/60; G06F-019/00 File Segment: EPI (Item 44 from file: 350) 12/5/65 DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 009765009 \*\*Image available\*\* WPI Acc No: 1994-044860/199406 XRPX Acc No: N94-035555 Information retrieval in distributed database management system manages data access among multiple relational databases in distributed network environment Patent Assignee: HEWLETT-PACKARD CO (HEWP Inventor: DU W; KRISHNAMURTHY R; SHAN M; SHAN M-C Number of Countries: 003 Number of Patents: 005 Patent Family: Patent No Kind Date Applicat No Kind Date A 19930809 GB 2269921 A 19940223 GB 9316517 199406 B DE 4323947 A1 19940224 DE 4323947 A 19930716 199409 19950502 US 92932426 A 19920820 199523 US 5412806 Α

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GB 2269921
             В
                  19960103 GB 9316517
                                         Α
                                              19930809 199604
DE 4323947
             C2 19980129 DE 4323947
                                         Α
                                             19930716 199808
Priority Applications (No Type Date): US 92932426 A 19920820
Patent Details:
                      Main IPC
Patent No Kind Lan Pg
                                   Filing Notes
                   71 G06F-015/40
GB 2269921 A
DE 4323947
                   38 G06F-015/403
            A1
US 5412806
            A
                   33 G06F-015/16
DE 4323947 C2
                   37 G06F-017/30
GB 2269921
            В
                      G06F-017/30
Abstract (Basic): GB 2269921 A
        The system includes a first database machine incorporating a
    first relational database management system (DBMS) and accompanying
    database . A second database machine incorporates a relational DBMS
    and accompanying database . The two DBMS are different but conform at
    least to a predetermined structured query language (SQL).
        An electronic bidirectional communications between the different
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An electronic bidirectional communications between the different database machines. The communication means for sending and receiving an electronic message to and from any of the database machines, the message is containing data defining a database query . A data access cost model optimises queries in each database in the system.

USE/ADVANTAGE - For successfully optimising and executing database queries in heterogeneous DBMS. Requires minimal knowledge of physical performance or operational models for each database managers.

Dwg.1/16

Title Terms: INFORMATION; RETRIEVAL; DISTRIBUTE; DATABASE; MANAGEMENT; SYSTEM; MANAGE; DATA; ACCESS; MULTIPLE; RELATED; DISTRIBUTE; NETWORK; ENVIRONMENT

Derwent Class: T01

International Patent Class (Main): G06F-015/16; G06F-015/40;

G06F-015/403; G06F-017/30

File Segment: EPI

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16/5/9
          (Item 7 from file: 350)
 DIALOG(R) File 350: Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.
             **Image available**
 014876359
 WPI Acc No: 2002-697065/200275
 XRPX Acc No: N02-549554
   Aggregation determination method for online analytical processing
  database system, involves maintaining set of usage statistics for
  multiple queries
 Patent Assignee: MICROSOFT CORP (MICT )
 Inventor: NETZ A; PASUMANSKY M
 Number of Countries: 001 Number of Patents: 001
 Patent Family:
 Patent No
             Kind
                     Date
                             Applicat No
                                            Kind
                                                            Week
                                                   Date
              B1 20020820 US 99337226
                                            Α
                                                 19990622 200275 B
 US 6438537
 Priority Applications (No Type Date): US 99337226 A 19990622
 Patent Details:
 Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
 US 6438537 B1 17 G06F-017/30
Abstract (Basic): US 6438537 B1
        NOVELTY - A set of usage statistics including the number of times
     each query is issued is maintained for multiple queries . A set of
     aggregations that provide answer to the queries is determined based
     on the usage statistics.
         DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the
     following:
         (1) Computer readable medium storing aggregation determination
     program; and
         (2) Computerized system.
         USE - For determining aggregations in online analytical processing
     (OLAP) database system.
         ADVANTAGE - By maintaining usage statistics, the weighted
    benefit/cost ratio that the OLAP database system uses to determine
     the candidate aggregations to be instantiated is determined
     automatically, hence computing resources are used efficiently.
         DESCRIPTION OF DRAWING(S) - The figure shows a system-level
     overview of the usage based optimization system.
         pp; 17 DwgNo 2/6
 Title Terms: AGGREGATE; DETERMINE; METHOD; ANALYSE; PROCESS; DATABASE;
   SYSTEM; MAINTAIN; SET; STATISTICAL; MULTIPLE; QUERY
 Derwent Class: T01
 International Patent Class (Main): G06F-017/30
 File Segment: EPI
              (Item 8 from file: 350)
  16/5/10
 DIALOG(R) File 350: Derwent WPIX
 (c) 2003 Thomson Derwent. All rts. reserv.
             **Image available**
 014860546
 WPI Acc No: 2002-681252/200273
 XRPX Acc No: N02-537718
   Computer system has query analyzer for displaying execution plan and
  percentage execution cost of database
                                           query in form of tree structure
 Patent Assignee: MICROSOFT CORP (MICT )
 Inventor: KIERNAN C L; MACLEOD S P; VASANDANI M
 Number of Countries: 001 Number of Patents: 001
 Patent Family:
 Patent No
             Kind
                      Date
                             Applicat No
                                            Kind
                                                   Date
                                                            Week
                                                 19981216 200273 B
              B1 20020813 US 98213069
 US 6434545
                                             Α
 Priority Applications (No Type Date): US 98213069 A 19981216
 Patent Details:
 Patent No Kind Lan Pg
                        Main IPC
                                     Filing Notes
 US 6434545
              В1
                   18 G06F-017/00
```

Abstract (Basic): US 6434545 B1

NOVELTY - A query analyzer displays a tree structure comprising nodes representing respective operations of the query execution plan and a percentage execution cost, for database query received by a user interface from a user input device. The analyzer prompts a user to add database column index and database statistics, on detecting absence of the database column index and statistics.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for graphical cost analysis method of user specified query .

USE - Computer system with graphical database query analyzer.

ADVANTAGE - The query analyzer displays an intuitive, graphical representation of query execution including detailed computational cost statistics, effectively, hence facilitates semiautomatic enhancement of query performance.

DESCRIPTION OF DRAWING(S) - The figure shows a high level flow diagram explaining cost analysis of user specified  ${\bf query}$  .

pp; 18 DwgNo 10/11

Title Terms: COMPUTER; SYSTEM; QUERY; ANALYSE; DISPLAY; EXECUTE; PLAN; PERCENTAGE; EXECUTE; COST; DATABASE; QUERY; FORM; TREE; STRUCTURE

Derwent Class: T01

International Patent Class (Main): G06F-017/00

File Segment: EPI

# 16/5/11 (Item 9 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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014787052 \*\*Image available\*\*
WPI Acc No: 2002-607758/200265
Related WPI Acc No: 2002-402258

XRPX Acc No: N02-481319

Database management system for computer network, selects executable procedures using automatically generated statistical results obtained from executed data

Patent Assignee: MICROSOFT CORP (MICT )

Inventor: ELLIS N R; KLINE R N

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 20020087518 A1 20020704 US 98213087 A 19981216 200265 B
US 200134806 A 20011226

Priority Applications (No Type Date): US 98213087 A 19981216; US 200134806 A 20011226

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
US 20020087518 A1 21 G06F-007/00 Cont of application US 98213087
Abstract (Basic): US 20020087518 A1

NOVELTY - A query optimizer automatically generates statistical data derived from the data executed under different procedures. The executable procedure is selected based on the statistical results to access various data in the  ${\tt database}$ .

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

- (1) Executable procedure selection method;
- (2) Computer storing executable instructions for operating query optimizer;
  - (3) Statistical result accumulation avoiding method;
  - (4) Statistical result generation method; and
- (5) Computer-readable medium storing computer-executable instructions.

USE - E.g. relational database management system (RDBMS) for computer network like LAN, WAN, Internet.

ADVANTAGE - Ensures reliable and efficient rendering of database system due to automatic selection of statistical results.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of

the computer system. pp; 21 DwgNo 1/11 Title Terms: DATABASE; MANAGEMENT; SYSTEM; COMPUTER; NETWORK; SELECT; EXECUTE; PROCEDURE; AUTOMATIC; GENERATE; STATISTICAL; RESULT; OBTAIN; EXECUTE; DATA Derwent Class: T01; W01 International Patent Class (Main): G06F-007/00 File Segment: EPI 16/5/12 (Item 10 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. \*\*Image available\*\* 014786021 WPI Acc No: 2002-606727/200265 Related WPI Acc No: 2002-402065 XRPX Acc No: N02-480400 Computer system, includes relational database system which determines an appropriate approach to use in processing the SQL command based on the generated statistic Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ) Inventor: BUI T; EGAN R L; KATHMANN K J; RICARD G R Number of Countries: 001 Number of Patents: 001 Patent Family: Patent No Applicat No Kind Date Kind Date Week US 6405187 B1 20020611 US 99336488 Α 19990618 200265 B US 99361868 Α 19990727 US 99393530 Α 19990910 Priority Applications (No Type Date): US 99393530 A 19990910; US 99336488 A 19990618; US 99361868 A 19990727 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes US 6405187 B1 15 G06F-017/30 CIP of application US 99336488 CIP of application US 99361868 Abstract (Basic): US 6405187 B1 NOVELTY - A main memory (120) contains an encoded vector index (EVI) (126) which provides data necessary to count the number of records in a database that match the criteria provided by a standard query language function. A relational database system (123) processes EVI symbol table entries to generate a statistic for a user query having an SQL command specifying a criterion. DETAILED DESCRIPTION - The relational database system determines an appropriate approach to use in processing the SQL command based on the generated statistic. An INDEPENDENT CLAIM is also included for a method in processing an SQL command. USE - Computer system. ADVANTAGE - Significantly improves performance of SQL functions through the use of an encoded vector index. Provides efficient generation of statistics by sequentially scanning through the entries of an EVI symbol table. Statistics are returned without the need to invoke alternate database indexes, and without the need to use other statistic generating methods. DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the computer system. Main memory (120) Relational database system (123) Encoded vector index (126) pp; 15 DwgNo 1/8 Title Terms: COMPUTER; SYSTEM; RELATED; DATABASE; SYSTEM; DETERMINE; APPROPRIATE; APPROACH; PROCESS; SQL; COMMAND; BASED; GENERATE; STATISTICAL Derwent Class: T01 International Patent Class (Main): G06F-017/30

File Segment: EPI

(Item 22 from file: 350) DIALOG(R) File 350: Derwent WPIX (c) 2003 Thomson Derwent. All rts. reserv. 014087611 \*\*Image available\*\* WPI Acc No: 2001-571825/200165 XRPX Acc No: N01-426141 Execution method for query with criterion in database system involves using relative tensor for carrying-out query in memory of computer system based on produced statistics , in order to process query Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ) Inventor: AMUNDSEN L C; KATHMANN K J; SANTOSUOSSO J M Number of Countries: 002 Number of Patents: 002 Patent Family: Patent No Kind Date Applicat No Kind Date Week A DE 10056765 A1 20010607 DE 1056765 20001111 200165 B US 6442539 B1 20020827 US 99441737 Α 19991117 200259 Priority Applications (No Type Date): US 99441737 A 19991117 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes DE 10056765 A1 59 G06F-017/30 US 6442539 G06F-017/30 В1 Abstract (Basic): DE 10056765 A1 NOVELTY - The processing of the relative tensors with several orders is performed in order to generate the statistics to the criterion in a user query . The relative tensor is used to carry-out a query in the memory of a computer system from two possible approaches based on the produced statistics , in order to process the query . DETAILED DESCRIPTION - The predetermined orders of the relative tensors correspond to the individual attributes and coordinates corresponding to the evaluation of the relevant attributes along the order of the relative tensors and the numeric values at the coordinate positions of the relative tensor. The attribute values correspond to the coordinates of the numeric value along the orders of the relative tensor. INDEPENDENT CLAIMS are also included for the following: (a) a relative tensor generation method; (b) a query execution device; (c) a relative tensor generation device; (d) and a signal carrier medium. USE - For generating statistics used for administering and executing queries in relational database . ADVANTAGE - Enables storage representations in various contexts in order to increase production of relational database management system (RDBMS) system. Enables producing relative tensor for identifying results of limitation operation. DESCRIPTION OF DRAWING(S) - The figure shows the flowchart of process for performing limitation operation applicable on a relative

tensor presenting data to generate statistics for limitation operation (drawing includes non-English language text).

pp; 59 DwgNo 4/9

Title Terms: EXECUTE; METHOD; QUERY; CRITERIA; DATABASE; SYSTEM; RELATIVE; TENSOR; CARRY; QUERY; MEMORY; COMPUTER; SYSTEM; BASED; PRODUCE; STATISTICAL; ORDER; PROCESS; QUERY

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/00

File Segment: EPI

#### 16/5/25 (Item 23 from file: 350)

DIALOG(R)File 350:Derwent WPIX

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014003824 \*\*Image available\*\* WPI Acc No: 2001-488038/200153

Related WPI Acc No: 2000-181694

XRPX Acc No: N01-361116

Database management method in computer system, involves generating summary table creation recommendation based on query statistics and accordingly creating summary table

Patent Assignee: ORACLE CORP (ORAC-N)

Inventor: CAVE S D; LAVENDER R L; OSBORN A P Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 6249791 B1 20010619 US 97962029 A 19971031 200153 B
US 99314457 A 19990518

Priority Applications (No Type Date): US 97962029 A 19971031; US 99314457 A 19990518

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 6249791 B1 17 G06F-017/30 Cont of application US 97962029 Cont of patent US 6023695

Abstract (Basic): US 6249791 B1

NOVELTY - Query statistics indicating execution time and frequency of query, is generated for each of the queries submitted to a database system and stored in local statistics table. A summary table creation recommendation is generated based on the stored query statistics. A summary table is created automatically based on the generated summary table creation recommendation.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for recording medium storing database management program.

 $\mbox{USE}$  - For management of  $\mbox{\tt database}$  such as relational  $\mbox{\tt database}$  in computer systems.

ADVANTAGE - As summary tables can be created automatically, faster searching and retrieval of data is achieved using minimum system resources.

DESCRIPTION OF DRAWING(S) - The figure shows the flow chart depicting methodology for creating database summary table. pp; 17 DwgNo 5/7

Title Terms: DATABASE; MANAGEMENT; METHOD; COMPUTER; SYSTEM; GENERATE; SUMMARY; TABLE; CREATION; BASED; QUERY; STATISTICAL; ACCORD; SUMMARY; TABLE

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

# 16/5/36 (Item 34 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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012889906 \*\*Image available\*\*
WPI Acc No: 2000-061740/200005
Related WPI Acc No: 2001-540354

XRPX Acc No: N00-048431

Query optimization method in database management system Patent Assignee: INT BUSINESS MACHINES CORP (IBMC ) Inventor: BEAVIN T A; IYER B R; SHIBAMIYA A; TIE H S; WANG M Number of Countries: 001 Number of Patents: 001 Patent Family:

Patent No Kind Date Applicat No Kind Date Week
US 5995957 A 19991130 US 97808521 A 19970228 200005 B

Priority Applications (No Type Date): US 97808521 A 19970228

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5995957 A 17 G06F-017/30

Abstract (Basic): US 5995957 A

NOVELTY - Data is divided into several evenly distributed sub

ranges, and number of rows between two given values are indicated in a column table. Percentage of occurrence of a specific value from among several values and number of distinct values, is determined.

DETAILED DESCRIPTION - Several columns of the table are selected and relationship among them is determined and stored to a table. The number of rows which satisfy **search** conditions specified by the **query** is determined.

INDEPENDENT CLAIMS are included for:

- (1) a database management system; and
- (2) a computer readable medium, containing a program product.

USE - In determining optimized access paths.

ADVANTAGE - Performance for **queries** that have predicates on multiple columns of table is improved. Problem caused by column correlation during **query** optimization is reduced by removing independence assumption when new type of multicolumn **statistics** is available. Number of qualified rows of **query** is estimated and **query** is optimized.

DESCRIPTION OF DRAWING(S) - The figure shows process flow of system, method and program product.

pp; 17 DwgNo 6A,6B/6

Title Terms: QUERY; METHOD; DATABASE; MANAGEMENT; SYSTEM

Derwent Class: T01

International Patent Class (Main): G06F-017/30

File Segment: EPI

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16/5/41 (Item 39 from file: 350)
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DIALOG(R) File 350: Derwent WPIX

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012337087 \*\*Image available\*\*

WPI Acc No: 1999-143194/199912

Related WPI Acc No: 1999-143197; 2000-105922; 2000-106382; 2000-125904

XRPX Acc No: N99-104013

Apparatus for use in information retrieval system for retrieving stored documents from repository - ranks documents in output set as predefined function of first logical form of query and second logical form for each document in output set and provides ranked output containing stored entries associated with output document set

Patent Assignee: MICROSOFT CORP (MICT ); MICROSOFT CORP (MICR-N) Inventor: BRADEN-HARDER L; CORSTON S H; DOLAN W B; VANDERWENDE L H

Number of Countries: 022 Number of Patents: 005

Patent Family:

Pat	ent No	Kind	Date	Apı	plicat No	Kind	Date	Week	
WO	9905618	A1	19990204	WO	98US9711	Α	19980513	199912	В
US	5933822	А	19990803	US	97898652	Α	19970722	199937	
EΡ	996899	A1	20000503	EΡ	98922234	Α	19980513	200026	
				WO	98US9711	Α	19980513		
JΡ	2001511564	W	20010814	WO	98US9711	Α	19980513	200154	
				JΡ	2000504525	Α	19980513		
CN	1302412	Α	20010704	CN	98808395	Α	19980513	200158	

Priority Applications (No Type Date): US 97898652 A 19970722

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

WO 9905618 A1 E 107 G06F-017/30

Designated States (National): CN JP

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

US, 5933822 A G06F-017/00

EP 996899 A1 E G06F-017/30 Based on patent WO 9905618

Designated States (Regional): AT BE CH DE ES FR GB IE IT LI LU MC NL

JP 2001511564 W 94 G06F-017/30 Based on patent WO 9905618

CN 1302412 A G06F-017/30

Abstract (Basic): WO 9905618 A

NOVELTY - The apparatus employs natural language processing to improve the accuracy of a keyword based document **search** performed by,

for example, a statistical web search engine (20), by the production, comparison and weighting of matching logical forms associated with a search query and each of the retrieved documents (35). DETAILED DESCRIPTION - Apparatus includes a processor and a memory with stored executable instructions, which instructs the processor. It produces in response to a query a logical form portraying semantic relationships between words associated with the query. A corresponding second logical form for each different document in the output document set is obtained, this form portrays the semantic relationships between words associated with a phrase in the document.

USE - For providing apparatus and accompanying methods for an

USE - For providing apparatus and accompanying methods for an information retrieval system utilising natural language processing to process results retrieved by, for example, an information retrieval engine such as a conventional statistical based search engine, in order to improve overall precision. DESCRIPTION OF DRAWING(S) - The drawing shows depicts a very high level block diagram of an information retrieval system 5. (20) retrieval engine; (35) retrieved documents.

Dwg.1/12

Title Terms: APPARATUS; INFORMATION; RETRIEVAL; SYSTEM; RETRIEVAL; STORAGE; DOCUMENT; REPOSITORY; RANK; DOCUMENT; OUTPUT; SET; PREDEFINED; FUNCTION; FIRST; LOGIC; FORM; QUERY; SECOND; LOGIC; FORM; DOCUMENT; OUTPUT; SET; RANK; OUTPUT; CONTAIN; STORAGE; ENTER; ASSOCIATE; OUTPUT; DOCUMENT; SET

Derwent Class: T01

International Patent Class (Main): G06F-017/00; G06F-017/30

File Segment: EPI

# 16/5/43 (Item 41 from file: 350)

DIALOG(R) File 350: Derwent WPIX

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012089340 \*\*Image available\*\*
WPI Acc No: 1998-506251/199843

XRPX Acc No: N98-394706

Search optimising method in multimedia database - involves processing and evaluating ranking expression in same procedure as that of filter condition

Patent Assignee: HEWLETT-PACKARD CO (HEWP )

Inventor: CHAUDHURI S; GRAVANO L

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No Kind Date Applicat No Kind Date Week US 5806061 A 19980908 US 97859556 A 19970520 199843 B

Priority Applications (No Type Date): US 97859556 A 19970520

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

US 5806061 A 20 G06F-017/00

Abstract (Basic): US 5806061 A

The method involves optimizing a **filter** condition containing several sub conditions. A **statistics** from a **database** is accessed based on suitable information cost to process a particular sub condition. A sub condition to be processed is selected based on the cost information. A **query** to the selected sub condition is send to **retrieve** all the objects satisfying sub condition from the multimedia **database**.

Other sub conditions on the **retrieved** objects are evaluated. A ranking expression is translated into filter condition by processing the expression in the same procedure as that of the condition.

ADVANTAGE - Retrieves sufficient number of objects, thereby minimizing cost of search . Improves work efficiency.

Dwg.2/9

Title Terms: SEARCH; OPTIMUM; METHOD; DATABASE; PROCESS; EVALUATE; RANK; EXPRESS; PROCEDURE; FILTER; CONDITION

Derwent Class: T01

File 348: EUROPEAN PATENTS 1978-2003/Jun W01

(c) 2003 European Patent Office File 349:PCT FULLTEXT 1979-2002/UB=20030529,UT=20030522

(c) 2003 WIPO/Univentio

. 445<u>0</u>00-0

Set S1	Items 1380543 ?	Description RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER? OR PLAN OR PLANS OR POLICY OR POLICIES OR OUERY OR SEARCH
S2	44235 OR	S1(5N)(PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV? EFFICIEN? OR SUCCESS?)
S3	2516 O	S2(5N)(MEASUR? OR ASSESS? OR EVALUAT? OR ANALYZ? OR ANALYS? R CHECK??? OR GAUG??? OR QUANTIF? OR JUDG???)
S4	1563	S1(10N)STATISTIC??
S5	124447	DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR SEARCH()EN-
	GI	NE? ?
S6	260	S3 (S) S5
s7	159	S3(S)S5(S)(SEARCH??? OR QUER???? OR RETRIEV?)
S8	71	S7 AND IC=G06F
S9	599043	RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
	?	OR PLAN OR PLANS OR POLICY OR POLICIES
S10	36178	S9(5N) (PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV?
	OR	EFFICIEN? OR SUCCESS?)
S11	235	S10(S)S5(S)(SEARCH??? OR QUER???? OR RETRIEV?) AND IC=G06F
S12	217	S11 NOT S8
S13	48	S12/TI, AB, CM
S14	1661	S9(5N)STATISTIC?
S15	48	S14(S)S5(S)(SEARCH??? OR QUER???? OR RETRIEV?) AND IC=G06F
S16	2639	S9(10N)STATISTIC?
S17	88	S16(S)S5(S)(SEARCH??? OR QUER???? OR RETRIEV?) AND IC=G06F
S18	. 38	S17 NOT (S8 OR S13 OR S15)

.8/5,K/5 (Item 5 from file: 348)
'DIALOG(R) File 348:EUROPEAN PATENTS

(c) 2003 European Patent Office. All rts. reserv.

# 01245516

- A phonetic method of retrieving and presenting electronic information from large information sources, an apparatus for performing the method, a computer-readable medium, and a computer program element
- Ein phonetisches Verfahren um elektronische Informationen von grossen Informationsquellen wiederaufzufinden und zu prasentieren, ein Gerat um dieses Verfahren auszufuhren, ein rechnerlesbares Medium, und ein Rechnerprogrammelement
- Un procede phonetique pour retrouver et presenter des informations electroniques de grandes sources d'informations, un dispositif pour mettre en oeuvre ce procede, un medium lisible par ordinateur, et un element de programme d'ordinateur

PATENT ASSIGNEE:

Mindpass A/S, (2821340), Vardevej 1, 9220 Aalborg, (DK), (Applicant designated States: all)

INVENTOR:

Fruensgaard, Finn Ove, Vesteraa 9, 9000 Aalborg, (DK) Kjaersgaard, Jesper, Kvisten 21, 9260 Gistrup, (DK)

LEGAL REPRESENTATIVE:

Wittrup, Flemming et al (61495), Hofman-Bang A/S, Hans Bekkevolds Alle 7, 2900 Hellerup, (DK)

PATENT (CC, No, Kind, Date): EP 1076305 A1 010214 (Basic)

APPLICATION (CC, No, Date): EP 99610045 990813;

DESIGNATED STATES: AT; BE; CH; CY; DE; DK; ES; FI; FR; GB; GR; IE; IT; LI; LU; MC; NL; PT; SE

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

# ABSTRACT EP 1076305 A1

The invention relates to a method of retrieving and presenting electronic information from an information source, said retrieval being based on a search request consisting of one or more given search terms. A selection of a first set of related search terms is performed from a set of possible search terms, said first selection being based on the syntactic resemblance between at least one of said given search terms and said possible search terms. Said given search request is modified in accordance with said set of related search terms, and said retrieval of information is based on said modified search request. A selection of a second set of related search terms from a predefined set of possible search terms is performed in accordance with the phonetic resemblance between each of said at least one of said given search terms and the contents of said set of possible search terms. The search terms to be included in said first set of related search terms are selected from said second set of search terms.

The invention also relates to an apparatus for performing the method, to a computer-readable medium, and to a computer program element.

ABSTRACT WORD COUNT: 194

NOTE:

Figure number on first page: 6

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 010214 Al Published application with search report Examination: 011010 Al Date of request for examination: 20010813 LANGUAGE (Publication, Procedural, Application): English; English; FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) 200107 1039
SPEC A (English) 200107 6255
Total word count - document A 7294
Total word count - document B 0
Total word count - documents A + B 7294

INTERNATIONAL PATENT CLASS: G06F-017/30

....SPECIFICATION consequence the result of the information retrieval may not be optimal and at worst it may be useless.

It is known to perform a spell check on given search terms. The spell check is performed by means of a repository including a number of correctly spelled possible search terms which can be used as search terms when retrieving information from the given information source. For example, when the information source holds information about a given technical area the predefined set of possible search terms includes terms from the given technical area. A given search term from the specified search criteria is looked up in a repository and is replaced by — or suggested to be replaced by — the term having the highest degree of syntactic resemblance with the given term. Hereby, the actual search terms to be used can be selected among the possible search terms and the influence of typing errors and spelling errors which might occur in the specified search terms can be eliminated or at least be reduced. This method, which often gives a good result, has the drawback of being cumbersome when a large set of possible search terms is used, i.e. when the predefined set of possible search terms holds a large number of search terms.

The object of the invention is to provide a method of retrieving electronic information from an information source, which on the one hand is...

8/5,K/7 (Item 7 from file: 348)

DIALOG(R) File 348: EUROPEAN PATENTS

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00966669

Database query system and method Datenbanksuchsystem und -verfahren

Systeme et methode d'interrogation de bases de donnees

PATENT ASSIGNEE:

INTERNATIONAL BUSINESS MACHINES CORPORATION, (200123), , Armonk, NY
10504, (US), (Applicant designated States: all)
INVENTOR:

Carey, Michael J., 1473 Almaden Valley Drive, San Jose, California 95120, (US)

Kiernan, Gerald G., 1074 Wallace Drive, San Jose, California 95120, (US) LEGAL REPRESENTATIVE:

Davies, Simon Robert (75452), IBM, United Kingdom Limited, Intellectual Property Law, Hursley Park, Winchester, Hampshire SO21 2JN, (GB) PATENT (CC, No, Kind, Date): EP 877328 A2 981111 (Basic)

EP 877328 A3 000119

APPLICATION (CC, No, Date): EP 98303616 980508; PRIORITY (CC, No, Date): US 853294 970509; US 853976 970509

DESIGNATED STATES: DE; FR; GB

EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06F-017/30

# ABSTRACT EP 877328 A2

An object language application (e.g., c++, JAVA, etc.,) is enabled to issue a query over a view and to receive back, as query results, handles to application type objects which can be further manipulated by the application. A view is defined herein as a collection of a view type, and a view type is defined as a class or type. In a preferred embodiment, a tool is used by a programmer writing an application to create object language class definitions that are based upon the view type of the view referenced by the query. Upon receipt of the query referencing a view type, a query engine generates a query plan that builds mock (i.e., proxy) application type objects in memory based upon the view types. The application objects have a form that is consistent with the class definition for a type of object returned as a result. The application can run methods on the application type objects or point to other application type objects from the handles, to the application objects, that are returned to the application; and these manipulations will be understood by the query engine. In a preferred embodiment, query rewrite optimizations are applied to the queries over views requiring object

building in order to optimize the evaluation of the query and the building of view objects as query results. For example, when a query over a view is analyzed and it is determined that the query is not requesting a handle, and is not referencing a method, but only asks for values, no objects are built. Also, if a query traverses a reference type attribute, but the query can be transformed into a join or outer join operation between relational tables, then no object building is required. In these above described situations, the rewritten query can be pushed down to the database management system of the data source for resolution. If the query does request a handle or references a method, then some object building is required. However, query rewrite techniques can still be applied so that parts of the query are pushed down to the DBMS to minimize the number of objects that are built.

ABSTRACT WORD COUNT: 360

NOTE:

Figure number on first page: 9B

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 000830 A2 Date of request for examination: 20000704
Search Report: 20000119 A3 Separate publication of the search report
Application: 981111 A2 Published application (Alwith Search Report; A2without Search Report)

LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 9846 1410 SPEC A (English) 9846 17780

Total word count - document A 19190
Total word count - document B 0
Total word count - documents A + B 19190

INTERNATIONAL PATENT CLASS: G06F-017/30

 $\dots$  SPECIFICATION referred to as a multi-valued view column since it is a collection.

Object-Oriented DBMSs (OODBMSs) offer a seamless integration of application types and database types. In contrast with queries over relational databases that return values that correspond to attributes in the rows of tables, queries over Object-Oriented databases can return handles to application objects as query results. Returning handles on application objects is a problem for queries over views. Views are understood by the query engine, but have no representation as application types. In the preferred embodiment of this invention, the problem of returning view types as application objects is addressed. The process of rendering application objects from views and view types is referred to herein as "object building". Object building is performed under the control of the query engine during query evaluation . There are two classes of queries that are affected by object building: 1) queries that return view types as query results, and 2) queries that invoke methods on view types. Both types of queries are addressed in the preferred embodiment of this invention. In addition new query rewrite algorithms are used to optimize these queries .

# DESCRIPTION OF A THREE TIER ENVIRONMENT

Fig. 9A shows a high level view of a three tier environment of the preferred embodiment of this invention...

# 8/5,K/9 (Item 9 from file: 348) DIALOG(R)File 348:EUROPEAN PATENTS

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00907344

Similarity search apparatus for searching unit strings
Aehnlichkeitsrecherchiergerat zum Recherchieren von Einheitszeichenfolgen
Appareil de recherche de similarite pour rechercher des sequences de
symboles

PATENT ASSIGNEE:

. ATR Interpreting Telecommunications Research Laboratories, (2331380), 5 Koaza-Sanpeidani, Oaza-Inuidani, Seika-cho, Soraku-gun, Kyoto 619-0288, (JP), (applicant designated states: DE;FR;GB)

#### INVENTOR:

Lepage, Yves, 24-104, Takanohara-ekinishi-danchi, 1-2, Kabutodai, Kizu-cho, Soraku-gun, Kyoto 619-02, (JP)

Ando, Shinichi, 1-8-203, Saidaiji-kita-machi 3-chome, Nara-shi, Nara 631, (JP)

### LEGAL REPRESENTATIVE:

Selting, Gunther, Dipl.-Ing. et al (11092), Patentanwalte von Kreisler, Selting, Werner Postfach 10 22 41, 50462 Koln, (DE)

PATENT (CC, No, Kind, Date): EP 828220 Al 980311 (Basic)

APPLICATION (CC, No, Date): EP 97115164 970902;

PRIORITY (CC, No, Date): JP 96233954 960904

DESIGNATED STATES: DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

### ABSTRACT EP 828220 A1

Provided is a similarity search apparatus for searching data at a higher speed than that of the prior art without limiting the types of letter of a search key. A unit position correspondence memory stores therein a table that expresses the ordinal number among units at which each unit in a search key inputted by means of a keyboard has appeared within the search key. A search section refers to the table stored in the unit position correspondence memory and operates every time units are read out one by one from a database memory including a plurality of units to generate a plurality of status parameters each of which includes a similarity, a position of coincidence and a skip number, which express with what number of units from the top of the search key the units read out from the database have coincided at what degree of similarity, and express how many units in the database have been skipped over subsequently. Through the above process, the search section updates each status parameter stored in a status parameter memory and operates upon detecting a unit string coincident at a similarity equal to or lower than an inputted similarity, to output the detected unit string as a unit string of a similarity.

ABSTRACT WORD COUNT: 211

LEGAL STATUS (Type, Pub Date, Kind, Text):

Examination: 021106 Al Date of dispatch of the first examination

report: 20020919

Application: 980311 Al Published application (Alwith Search Report

;A2without Search Report)

Examination: 980311 Al Date of filing of request for examination:

970902

Change: 981125 Al Designated Contracting States (change)

LANGUAGE (Publication, Procedural, Application): English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count

CLAIMS A (English) 9811 1107 SPEC A (English) 9811 12238 Total word count - document A 13345

Total word count - document B 0
Total word count - documents A + B 13345

INTERNATIONAL PATENT CLASS: G06F-017/30

...SPECIFICATION existence of the unit string coincident at a similarity equal to or lower than the inputted similarity is detected. Therefore, outputting as a consequence of success of search can be effected without checking the search key to the last part of it. With this arrangement, the similarity search process can be executed at a higher speed than that of the prior arts.

Furthermore, according to the similarity search apparatus of the present preferred...

```
".DIALOG(R) File 348: EUROPEAN PATENTS
 '(c) 2003 European Patent Office. All rts. reserv.
 00875665
 Multimedia database retrieval system
 Multimedia-Datenbankwiederauffindungssystem
 Systeme de recouvrement de donnees multimedia
 PATENT ASSIGNEE:
   NEC CORPORATION, (236690), 7-1, Shiba 5-chome Minato-ku, Tokyo, (JP),
      (applicant designated states: DE;GB)
 INVENTOR:
   Miller, Matthew L., Dominikonu 3-24, Vilnius, Lithuania, (LT)
```

Cox, Ingemar J., 21, LeParc Drive, Lawrenceville, NJ 08648, (US)

Omohundro, Stephen M., 1012, Hemlock Court, Monmouth Junction, NJ 08852,

Yianilos, Peter N., 215, Arreton Road, Princeton, NJ 08540, (US) LEGAL REPRESENTATIVE:

Betten & Resch (101031), Reichenbachstrasse 19, 80469 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 802489 A2 971022 (Basic)

EP 802489 A3 990506

APPLICATION (CC, No, Date): EP 97106304 970416;

PRIORITY (CC, No, Date): US 634313 960416

DESIGNATED STATES: DE; GB

INTERNATIONAL PATENT CLASS: G06F-017/30

### ABSTRACT EP 802489 A2

A queryless, multimedia database search method incorporating a Bayesian inference engine that refines its answer with each user response. The set of user responses includes of a series of displays and user actions, and is defined by a relatively simple user interface. ABSTRACT WORD COUNT: 43

LEGAL STATUS (Type, Pub Date, Kind, Text):

020102 A2 Date of dispatch of the first examination Examination:

report: 20011119

971022 A2 Published application (Alwith Search Report Application:

; A2without Search Report)

020828 A2 Title of invention (French) changed: 20020705 Change: Change: 020828 A2 Title of invention (English) changed: 20020705 020828 A2 Title of invention (German) changed: 20020705 Change:

990506 A3 Separate publication of the European or Search Report:

International search report

990825 A2 Date of request for examination: 19990624 Examination: LANGUAGE (Publication, Procedural, Application): English; English; English FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS A (English) 9710W3 761 4897 SPEC A (English) 9710W3 5658 Total word count - document A Total word count - document B 0 Total word count - documents A + B 5658

INTERNATIONAL PATENT CLASS: G06F-017/30

... CLAIMS a database of 3d shapes.

- 20. The method according to claim 1 wherein the database is a database of
- 21. An interactive method for **measuring** the **effectiveness** search , said method comprising the steps of: generating a target object for which to be searched; displaying said target object and a set of candidate objects...

#### 8/5, K/12(Item 12 from file: 348) DIALOG(R) File 348: EUROPEAN PATENTS

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EXPERT SYSTEM WITH FAST PATTERN MATCH DETERMINATION BY EQUIVALENCE CLASS
     PROJECTION MEANS
           SYSTEM MIT SCHNELLEM PATTERN-MATCHING UNTER VERWENDUNG VON
 EXPERTEN
     AQUIVALENZ-KLASSEN
 SYSTEME EXPERT AVEC DETERMINATION RAPIDE DE CONCORDANCE AVEC UN MODELE A
     1'AIDE D'UN SYSTEME DE PROJECTION DE CLASSE D'EQUIVALENCE
 PATENT ASSIGNEE:
   DIGITAL EQUIPMENT CORPORATION, (313088), 146 Main Street, Maynard,
     Massachusetts 01745, (US), (Proprietor designated states: all)
 INVENTOR:
   KIRK, Steven, A., 46 High Street, Chelmsford, MA 01824, (US)
   BARABASH, William, 1 Seneca Court, Acton, MA 01720, (US)
   YERAZUNIS, William, S., 193 Stevens Street, Marlboro, MA 01752, (US)
 LEGAL REPRESENTATIVE:
   Charig, Raymond Julian et al (79692), Eric Potter Clarkson, Park View
     House, 58 The Ropewalk, Nottingham NG1 5DD, (GB)
 PATENT (CC, No, Kind, Date): EP 616707 Al 940928 (Basic)
                               EP 616707 B1
                                              990908
                               WO 9312482 930624
 APPLICATION (CC, No, Date):
                               EP 92906036 911209; WO 91US9205
 PRIORITY (CC, No, Date): EP 92906036 911209; WO 91US9205 911209
 DESIGNATED STATES: DE; FR; GB; IT
 INTERNATIONAL PATENT CLASS: G06F-009/44
 CITED REFERENCES (EP B):
   PROCEEDINGS. 7TH IEEE CONFERENCE ON ARTIFICIAL INTELLIGENCE vol. 19.
     February 1991, LOS ALAMITOS, CA pages 76 - 80; D.N GORDIN:
     'Set-oriented constructs for rule-based systems';
   No A-document published by EPO
 LEGAL STATUS (Type, Pub Date, Kind, Text):
                   000823 B1 No opposition filed: 20000609
  Oppn None:
                   940928 Al Published application (Alwith Search Report
  Application:
                             ; A2without Search Report)
                   010321 Bl Date of lapse of European Patent in a
  Lapse:
                             contracting state (Country, date): GB
                             19991209,
  Examination:
                   940928 Al Date of filing of request for examination:
                             940308
  Examination:
                   960626 Al Date of despatch of first examination report:
                             960508
  Change:
                   981202 Al International patent classification (change)
  Change:
                   981202 A1 Title of invention (German) (change)
                   981202 Al Title of invention (English) (change)
  Change:
  Change:
                   981202 Al Title of invention (French) (change)
                   990908 B1 Granted patent
  Grant:
                   991201 Bl Legal representative(s) changed 19991012
 LANGUAGE (Publication, Procedural, Application): English; English; English
 FULLTEXT AVAILABILITY:
                                      Word Count
 Available Text Language
                            Update
       CLAIMS B (English) 9936
                                        650
       CLAIMS B
                (German) 9936
                                        580
       CLAIMS B
                  (French) 9936
                                        742
       SPEC B
                (English) 9936
                                       9890
 Total word count - document A
                                          0
 Total word count - document B
                                      11862
```

### INTERNATIONAL PATENT CLASS: G06F-009/44

Total word count - documents A + B

...SPECIFICATION is generated based on the significant inter-object constraints 4. An equivalence class is a set of objects that, for the purposes of a complex data base query (such as joins over a non-key field) in a data base system, or matching in a particular rule in a rule based expert system, are indistinguishable and completely interchangeable with respect to the data base join being performed or rule being evaluated, respectively. The equivalence classes 6 themselves (and not the individual members of that equivalence class) are then evaluated to find a set of tuples of...

11862

(Item 13 from file: 348) 8/5,K/13 DIALOG(R) File 348: EUROPEAN PATENTS (c) 2003 European Patent Office. All rts. reserv. 00522928 Database retrieval system for responding to natural language queries with corresponding tables Datenbankauffindungssystem zur Beantwortung natursprachlicher Fragen mit dazugehorigen Tabellen Systeme de recouvrement de donnees pour repondre aux interrogations en langage naturel avec des tables correspondantes PATENT ASSIGNEE: MITSUBISHI DENKI KABUSHIKI KAISHA, (208581), 2-3, Marunouchi 2-chome Chiyoda-ku, Tokyo, (JP), (Proprietor designated states: all) INVENTOR: Takanashi, Ikuko, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Kondo, Shozo, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Suzuki, Katsushi, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Naganuma, Kazutomo, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Itabashi, Yoshiko, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Kimura, Chikako, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) Inaba, Naohito, c/o Mitsubishi Denki, K.K., Johodenshi Kenkyusho, 1-1, Ofuna 5-chome, Kamakura-shi, Kanagawa-ken, (JP) LEGAL REPRESENTATIVE: Pfenning, Meinig & Partner (100961), Mozartstrasse 17, 80336 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 522591 A2 930113 (Basic) EP 522591 A3 931103 EP 522591 000322 В1 APPLICATION (CC, No, Date): EP 92111820 920710; PRIORITY (CC, No, Date): JP 91171217 910711 DESIGNATED STATES: DE; FR; GB INTERNATIONAL PATENT CLASS: G06F-017/30 CITED PATENTS (EP A): US 4994967 A; EP 427240 A; WO 8909455 A CITED PATENTS (EP B): EP 427240 A; WO 89/09455 A; US 4994967 A CITED REFERENCES (EP A): PATENT ABSTRACTS OF JAPAN vol. 013, no. 263 (P-886)19 June 1989 PATENT ABSTRACTS OF JAPAN vol. 135, no. 000 (P-979)20 December 1989; CITED REFERENCES (EP B): PATENT ABSTRACTS OF JAPAN vol. 013, no. 263 (P-886)19 June 1989 & JP-A-1 058 019 ( FUJITSU LTD ) 6 March 1989 PATENT ABSTRACTS OF JAPAN vol. 135, no. 000 (P-979)20 December 1989 & JP-A-1 243 116 ( HITACHI LTD ) 27 September 1989;

### ABSTRACT EP 522591 A2

An information retrieval system is used for retrieving information from a database. The information retrieval system includes a parser for parsing a natural language input query into constituent phrases as a syntax analysis result. The system also includes a virtual table for converting phrases of the natural language query to retrieval keys that are possessed by the database. The virtual table accounts for particles that modify the phrases in the input query. A collating unit is provided in the system for preparing a database retrieval formula from the syntax analysis result by selecting a virtual table that it is used to convert the phrases to the keys possessed by the database. Lastly, the system includes a retrieval execution unit for retrieving data from the database on the basis of the database retrieval formula.

ABSTRACT WORD COUNT: 135

NOTE:

Figure number on first page: NONE

LEGAL STATUS (Type, Pub Date, Kind, Text):

Oppn None: 010307 Bl No opposition filed: 20001223

Grant: 20000322 B1 Granted patent

Application: 930113 A2 Published application (Alwith Search Report

;A2without Search Report)

Examination: 930113 A2 Date of filing of request for examination:

920710

Search Report: 931103 A3 Separate publication of the European or

International search report

Examination: 980715 A2 Date of despatch of first examination report:

980602

Change: 990609 A2 International patent classification (change) LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS B (English) 200012 323 CLAIMS B (German) 200012 296 (French) 200012 CLAIMS B 408 (English) 200012 SPEC B 8386 Total word count - document A Total word count - document B 9413 Total word count - documents A + B 9413

### INTERNATIONAL PATENT CLASS: G06F-017/30

... SPECIFICATION these phrases are nouns. The dictionary 2 is not referenced for the zyoshi "ha" and "no".

Syntax and semantic analysis is then performed on the **query**. In particular, syntactic analysis is performed to process the syntax or the **query** in order to understand the role each phrase serves in the **query**. Semantic analysis, on the other hand, is performed to understand what is being requested by the **query**.

Subsequently, semantic analysis is performed to relate the meaning of the query to the database entries. The semantic analysis relies on the hierarchical table model 6 (see Fig. 3b) to ascertain that "chokoreeto rui" (chocolates and the like) is an...

...that the attribute "chokoreeto rui" in table 18 modifies the attribute "uriage" (sales), which appears in a higher order table 14. Using these results, a retrieval formula "retrieval condition: (commodity group name = chokoreeto rui), retrieval object: uriage" is obtained and is output from the retrieval sentence analysis unit 5. Subsequently, retrieval from the database 9 is performed by the retrieval processing unit 8 to obtain the desired data.

Figs. 4a, 4b and 4c show dictionaries used in a second conventional database retrieval system, as disclosed...

### 8/5,K/30 (Item 17 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00876939 \*\*Image available\*\*

### METHOD FOR SEARCH IN AN AUDIO DATABASE

SYSTEMES ET PROCEDES PERMETTANT DE RECONNAITRE DES SIGNAUX SONORES ET MUSICAUX DANS DES SIGNAUX A GRAND BRUIT ET GRANDE DISTORSION

Patent Applicant/Assignee:

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Patent Applicant/Inventor:

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SMITH Julius O III, 4360 Miller Avenue, Palo Alto, CA 94308, US, US (Residence), US (Nationality), (Designated only for: US)

Legal Representative:

BOYCE Conor (agent), F. R. Kelly & Co., 27 Clyde Road, Ballsbridge,

· . Dublin 4, IE,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200211123 A2-A3 20020207 (WO 0211123)
Application: WO 2001EP8709 20010726 (PCT/WO EP0108709)

Priority Application: US 2000222023 20000731; US 2001839476 20010420 Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU

CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

International Patent Class: G10H-001/00; G10L-015/02; G10L-015/20

Publication Language: English

Filing Language: English Fulltext Availability: Detailed Description

Claims

Fulltext Word Count: 15662

### English Abstract

A method for recognizing an audio sample locates an audio file that most closely matches the audio sample from a database indexing a large set of original recordings. Each indexed audio file is represented in the database index by a set of landmark timepoints and associated fingerprints. Landmarks occur at reproductible locations within the file, while fingerprints represent features of the signal at or near the landmark timepoints. To perform recognition, landmarks and fingerprints are computed for the unknown sample and used to retrieve matching fingerprints from the database. For each file containing matching fingerprints, the landmarks are compared with landmarks of the sample at which the same fingerprints were computed. If a large number of corresponding landmarks are linearly related, i.e., if equivalent fingerprints of the sample and retrieved file have the same time evolution, then the file is identified with the sample. The method can be used for any type of sound or music, and is particularly effective for audio signals subject to linear and nonlinear distortion such as background noise, compression artifacts, or transmission dropouts. The sample can be identified in a time proportional to the logarithm of the number of entries in the database; given sufficient computational power, recognition can be performed in nearly real time as the sound is being sampled.

### French Abstract

La presente invention concerne un procede permettant de reconnaitre un echantillon audio, par localisation d'un fichier audio qui correspond le plus etroitement a l'echantillon audio, a partir d'une base de donnees indexant un vaste ensemble d'enregistrements originaux. Chaque fichier audio indexe est represente dans l'index de la base de donnees par un ensemble de moments reperes et d'empreintes associees. Des reperes apparaissent a des emplacements reproductibles dans le fichier, alors que des empreintes representent des caracteristiques du signal aux moments reperes ou a proximite des moments reperes. Afin de realiser une reconnaissance, des reperes et des empreintes sont calcules pour l'echantillon inconnu et utilises pour recuperer des empreintes correspondantes a partir de la base de donnees. Pour chaque fichier contenant des empreintes correspondantes, les reperes sont compares aux reperes de l'echantillon pour lequel les memes empreintes ont ete calculees. Si un grand nombre de reperes correspondants sont lineairement associes, c'est-a-dire si des empreintes equivalentes de l'echantillon et un fichier recupere presentent la meme evolution dans le temps, le fichier est alors identifie a l'echantillon. Ce procede peut etre mis en oeuvre pour tout type de son ou de musique et est particulierement efficace pour des signaux audio soumis a une distorsion lineaire et non lineaire, telle qu'un bruit de fond, des artefacts de compression ou des interruptions de transmission de courte duree. L'echantillon peut etre

· .identifie dans periode proportionnelle au logarithme du nombre d'entrees dans la base de donnees. Avec une puissance de calcul suffisante, l'operation de reconnaissance peut etre realisee presque en temps reel, des que le son est echantillonne.

Legal Status (Type, Date, Text)

Publication 20020207 A2 Without international search report and to be republished upon receipt of that report.

Examination 20020321 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20020530 Late publication of international search report

Republication 20020530 A3 With international search report.

Republication 20020530 A3 Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

### Detailed Description

... As such, current audio retrieval schemes index audio signals by computed perceptual characteristics that represent various qualities or features of the signal.

Content-based audio **retrieval** is typically performed by analyzing a **query** signal to obtain a number of representative characteristics, and then applying a similarity measure to the derived characteristics to locate **database** files that are most similar to the **query** signal.

The similarity of received objects is necessarily a reflection of the perceptual characteristics selected. A number of content-based retrieval methods are available in...

### 8/5,K/32 (Item 19 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00846448 \*\*Image available\*\*

INTERACTIVE INTELLIGENT SEARCHING WITH EXECUTABLE SUGGESTIONS
RECHERCHE INTELLIGENTE INTERACTIVE COMPRENANT DES SUGGESTIONS EXECUTABLES
Patent Applicant/Assignee:

ICPLANET ACQUISITION CORPORATION, 2570 North First Street, San Jose, CA 95131, US, US (Residence), US (Nationality)

Inventor(s):

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SOKOHL Robert E (et al) (agent), Sterne, Kessler, Goldstein & Fox P.L.L.C., Suite 600, 1100 New York Avenue, N.W., Washington, DC 20005-3934, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200180177 A2-A3 20011025 (WO 0180177)

Application: WO 2001US12510 20010418 (PCT/WO US0112510)

Priority Application: US 2000551533 20000418

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06N-005/04

International Patent Class: G06F-017/30 Publication Language: English

Filing Language: English

·Fulltext Availability: Detailed Description

Claims

Fulltext Word Count: 13142

### English Abstract

A method, system, and computer program product for interactive searching with executable suggestions are provided. The present invention provides a search engine and data management technology that can understand what users are looking for, understand the data in a database, and present immediately useful suggestions for finding the right information. Executable suggestions are presented that enable a user to further narrow or broaden a search intelligently and adaptively in real-time. Each executable suggestion describes a search and corresponding search criteria and provides information on the actual search results a user will obtain according to this search criteria. In one embodiment of the present invention, a system has a suggestion engine and one or more suggestion spaces.

### French Abstract

L'invention concerne un procede, un systeme et un progiciel de recherche intelligente interactive comprenant des suggestions executables. D'une maniere specifique, l'invention concerne un moteur de recherche et une technologie de gestion des donnees capables de comprendre ce que recherchent les utilisateurs et les donnees dans une base de donnees et de presenter immediatement des suggestions utiles pour trouver la bonne information. Des suggestions executables sont presentees afin de permettre a un utilisateur de resserrer ou d'elargir une recherche en temps reel et de maniere intelligente et adaptative. Chaque suggestion executable decrit une recherche et les criteres de recherche correspondants et fournit les informations concernant les resultats reels de la recherche qu'un utilisateur va obtenir d'apres ces criteres de recherche. Dans un mode de realisation, un systeme comporte un moteur de suggestions et un ou plusieurs espaces de suggestions.

Legal Status (Type, Date, Text)

Publication 20011025 A2 Without international search report and to be

republished upon receipt of that report.

Examination 20020110 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20030130 Late publication of international search report

Republication 20030130 A3 With international search report.

International Patent Class: G06F-017/30

Fulltext Availability: Detailed Description

### Detailed Description

... multi-dimensional indexes) into the data that can be used to access the data in powerfal ways.

With respect to Iznowledge of the end-user query , by analyzing the coluponent parts of queries developed by end-users to search a local or knovAi database , a system, according to the present invention, can gain Iznowledge of what users are-looking for. Furthermore, by storing and analyzing end-user queries over time, a system can categorize queries and leani about such things as the most used query , least used query , most successfal query , least successful query , and more. The collection and analysis of meta-data about data in a database along with the knowledge of What end-users are searching for, and the knowledge of historical query analysis can then be used to develop real-time dynaraic matches and executable suggestions that will helpi ensure the best possible matches are being found...

8/5,K/34 (Item 21 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2003 WIPO/Univentio. All rts. reserv. უ0833750 \*\*Image available\*\* SYSTEM AND METHOD FOR COMPUTER SEARCHING SYSTEME ET PROCEDE POUR EFFECTUER DES RECHERCHES SUR ORDINATEUR Patent Applicant/Assignee: TZUNAMI INC, c/o Aaron Etra, Martin & Taub LLP, 1350 Avenue of the Americas, New York, NY 10019, US, US (Residence), US (Nationality), (For all designated states except: US) Patent Applicant/Inventor: KLEINBERGER Paul, 4 HaMaapilim Street, 92545 Jerusalem, IL, IL (Residence), US (Nationality), (Designated only for: US) JACOBSON Ron, 1 Brazil Street, 69710 Tel Aviv, IL, IL (Residence), IL (Nationality), (Designated only for: US) BEZEM Shlomo, 697 Har Ramon Street, 71908 Macabim, IL, IL (Residence), IL (Nationality), (Designated only for: US) Legal Representative: COLB Sanford T (et al) (agent), Sanford T. Colb & Co., P.O. Box 2273, 76122 Rehovot, IL, Patent and Priority Information (Country, Number, Date): Patent: WO 200167297 A1 20010913 (WO 0167297) WO 2001IL214 20010307 (PCT/WO IL0100214) Application: Priority Application: US 2000187415 20000307 Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW (EA) AM AZ BY KG KZ MD RU TJ TM Main International Patent Class: G06F-017/30 Publication Language: English Filing Language: English Fulltext Availability: Detailed Description Claims Fulltext Word Count: 14024 English Abstract A method for computer searching, including receiving an initial data set from a data set source (1), prioritizing items according to user's preferences (2), deselecting data items having low priority (3) and displaying results (4). French Abstract L'invention concerne un procede pour effectuer des recherches sur ordinateur. Ce procede consiste a recevoir un groupe de donnees initiales a partir d'une source (1) de groupes de donnees; a classer par priorite des elements desdites donnees en fonction des preferences (2) de l'utilisateur, a supprimer de la selection les elements de donnees avant une priorite basse (3) et a afficher les resultats (4). Legal Status (Type, Date, Text) Publication 20010913 A1 With international search report. Publication 20010913 Al Before the expiration of the time limit for amending the claims and to be republished in the

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

### Detailed Description

... the items of the input data set is found. In a preferred embodiment, where the data set is a set of results provided by a **search engine** in response to a **search** request, the **analysis** is **performed** by treating the descriptions of the found items provided by the **search engine** (e.g. the text accompanying each URL in a typical Internet **search engine** results list) as keywords or descriptors of the found objects,

event of the receipt of amendments.

 $\cdot$  , and analyzing them statistically to identify keywords or descriptors common to a relatively large sets...

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8/5, K/36
              (Item 23 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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            **Image available**
00831825
SEARCH ENGINE FOR SPATIAL DATA INDEXING
MOTEUR DE RECHERCHE SUR L'INTERNET
Patent Applicant/Assignee:
  GEOCONTENT INC, 1015 Mark Avenue, Carpinteria, CA 93013, US, US
    (Residence), US (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
  ELLIOTT Margaret E, 101 Longhorn Way, Ojai, CA 93023, US, US (Residence),
    US (Nationality), (Designated only for: US)
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  WELCH James E, 2311 Vista Madera, Santa Barbara, CA 93101, US, US
    (Residence), US (Nationality), (Designated only for: US)
Legal Representative:
  CHABOT Ralph D (agent), Chabot & Associates, 2310 East Ponderosa Drive,
    Suite 4,, Camarillo, CA 93010-4757, US,
Patent and Priority Information (Country, Number, Date):
  Patent:
                        WO 200165410 A2-A3 20010907 (WO 0165410)
                        WO 2001US5165 20010216 (PCT/WO US0105165)
  Application:
  Priority Application: US 2000185322 20000228; US 2000226358 20000818; US
    2001261095 20010110
Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ
  DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ
  LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG
  SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW
  (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR
  (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
  (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
  (EA) AM AZ BY KG KZ MD RU TJ TM
Main International Patent Class: G06F-017/30
Publication Language: English
Filing Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 8610
English Abstract
  The invention disclosed is a spatial indexing intelligent agent that
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indexes information against a database of spatial language which is used in combination with a modified search engine that conducts searches using spatially relevant criteria and spatial analysis algorithms. Alpha-numeric values from a mathematical system are used for identifying spatial locations, and can be arbitrary, geocentric, virtual, and galactic.

### French Abstract

L'invention concerne un agent intelligent d'indexation spatial qui effectue l'indexation des informations par rapport a une base de donnees d'un langage spatial qui s'utilise en combinaison avec un moteur de recherche modifie qui effectue des recherches en utilisant des criteres pertinents du point de vue spatial et des algorithmes d'analyse spatiale. Des valeurs alphanumeriques provenant d'un systeme mathematique sont utilisees pour identifier des emplacements spatiaux; elles peuvent etre arbitraires, geocentriques, virtuelles et galactiques.

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Legal Status (Type, Date, Text)
Publication 20010907 A2 Without international search report and to be
                       republished upon receipt of that report.
              20011220 Request for preliminary examination prior to end of
Examination
```

19th month from priority date

Search Rpt 20020314 Late publication of international search report Republication 20020314 A3 With international search report.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

Detailed Description

... each page. In other words, if many Web pages are linking to a page X, then page X is considered a high-quality page.

The search engine checks the word index and correlates it with web site data found in a database. The database of web sites will contain basic information gleaned from the web site by a web-indexing robot. The robot will pull descriptions and keywords from...on the page in an attempt to capture better information about the sites checked by the robot. This information will fuel the text and link analysis performed by the search engine.

Search engines use the filtering results performed by the web indexing robot to enhance their search capabilities and to perform on-demand filtering based on client input at the time of the search.

Part IV: Spatial Search Engine (SSE) An Internet search engine searches an index of words collected by web indexing robots. A SSE searches the spatial...

8/5,K/37 (Item 24 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00809290 \*\*Image available\*\*

SEARCH QUERY REFINEMENT USING RELATED SEARCH PHRASES

AFFINAGE DE DEMANDES DE RECHERCHE A L'AIDE DE GROUPES DE MOTS DE RECHERCHE

APPARENTES

Patent Applicant/Assignee:

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Inventor(s):

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DELANEY Karoline A (agent), Knobbe, Martens, Olson & Bear, LLP, 620 Newport Center Drive, 16th Floor, Newport Beach, CA 92660, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200142880 A2-A3 20010614 (WO 0142880)

Application: WO 2000US42576 20001205 (PCT/WO US0042576)

Priority Application: US 99170151 19991210; US 2000533230 20000322

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ EE

EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL IN

IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ

PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR TT TZ UA UG UZ

VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 9705

### · English Abstract

A search engine system uses information about historical query submissions to a search engine to suggest previously-submitted, related search phrases to users (110). The related search phrases (139) are preferably suggested based on a most recent set of query submission data, and thus strongly reflect the current searching patterns or interests of users. The system is preferably implemented within a search engine used to locate items that are available for electronic purchase (133), but may be implemented within other types of search engines. In one embodiment, the related search phrases are scored and selected for display based at least in-part on an evaluation of the "usefulness" of each search phrase, as reflected by actions performed by prior users while viewing the corresponding search results.

### French Abstract

Systeme de moteur de recherche qui utilise des informations relatives a l'historique des demandes de recherche adressees a un moteur de recherche pour suggerer aux utilisateurs des groupes de mots de recherche apparentes precedemment soumis. Les groupes de mots de recherche apparentes sont de preference suggeres sur la base de la serie la plus recente des donnees de demandes soumises (par ex. les demandes soumises pendant les deux dernieres semaines), et refletent donc etroitement les tendances et les interets des utilisateurs en matiere de recherche au moment concerne. Ledit systeme est de preference mis en oeuvre dans un moteur de recherche utilise pour localiser des articles disponibles par achat electronique, mais peut etre mis en oeuvre dans d'autres types de moteurs de recherche. Dans un mode de realisation, les groupes de mots de recherche apparentes sont dotes d'un score et selectionnes en vue de leur affichage, au moins en partie sur la base d'une evaluation de l'<=utilite>= de chacun de ces groupes de mots, telle qu'elle est refletee par les actions qu'ont engage les utilisateurs precedents lors du visionnement des resultats de recherche correspondants.

Legal Status (Type, Date, Text)

Publication 20010614 A2 Without international search report and to be republished upon receipt of that report.

Examination 20011011 Request for preliminary examination prior to end of 19th month from priority date

Search Rpt 20011101 Late publication of international search report Republication 20011101 A3 With international search report.

Main International Patent Class: G06F-017/30

### English Abstract

A search engine system uses information about historical query submissions to a search engine to suggest previously-submitted, related search phrases to users (110). The related search phrases (139) are preferably suggested based on a most recent set of query submission data, and thus strongly reflect the current searching patterns or interests of users. The system is preferably implemented within a search engine used to locate items that are available for electronic purchase (133), but may be implemented within other types of search engines. In one embodiment, the related search phrases are scored and selected for display based at least in-part on an evaluation of the "usefulness" of each search phrase, as reflected by actions performed by prior users while viewing the corresponding search results.

8/5,K/40 (Item 27 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00799844 \*\*Image available\*\*

SYSTEM AND METHOD FOR RETRIEVING INFORMATION WITH NATURAL LANGUAGE QUERIES SYSTEME ET PROCEDE POUR RETROUVER DES INFORMATIONS PAR DES INTERROGATIONS EN LANGAGE NATUREL

· Patent Applicant/Assignee:

SAP AKTIENGESELLSCHAFT, Harald Hagedorn, Intellectual Property
Department, Neurottstrasse 16, 69190 Walldorf, DE, DE (Residence), DE
(Nationality), (For all designated states except: US)

Patent Applicant/Inventor:

KAISER Matthias, 1355 San Domar Drive #3, Mountain View, CA 94043, US, US (Residence), DE (Nationality), (Designated only for: US)

Patent and Priority Information (Country, Number, Date):

Patent:

WO 200133414 A2 20010510 (WO 0133414)

Application:

WO 2000EP10454 20001024 (PCT/WO EP0010454)

Priority Application: DE 19952769 19991102

Designated States: AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ DE DK DM DZ EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English Fulltext Availability:

Detailed Description Claims

Fulltext Word Count: 9803

### English Abstract

A search machine finds and ranks documents in a database based on a set of rules that match characteristics of the database with a natural language query. The system includes a lexicon component which may parse the query and the database into words and word stems. Thereafter, the query and documents may be vectorized such that the elements of the vector correspond to a given word stem, and the value of the element in the vector corresponds to the number of occurrences of the word in the document. The vectorized query is then compared and evaluated against each of the vectorized documents of the database to obtain a ranked list of documents from the database. The user may evaluate the documents found and provide information back to the search machine in order to adjust, for example, the ranking produced by the search machine. In this way, the search machine can fine tune its search and ranking technique to meet the user's specific criteria.

### French Abstract

Une machine de recherche a pour but de rechercher et de classer des documents dans une base de donnees conformement a un ensemble de regles adaptant les caracteristiques de la base de donnees a des interrogations en langage naturel. Le systeme comprend un composant lexique qui peut analyser la question et la base de donnees en mots et radicaux. Apres quoi, la question et les documents peuvent etre vectorises de telle facon que les elements du vecteur correspondent a une racine de mots determinee, et que la valeur de l'element dans le vecteur corresponde au nombre de fois que le mot se presente dans le document. La question vectorisee est ensuite comparee et evaluee par rapport a chacun des documents vectorises de la base de donnees, de maniere a obtenir une liste classee de documents provenant de la base de donnees. L'utilisateur peut evaluer les documents trouves et fournir des informations en retour a la machine de recherche en vue d'ajuster, par exemple, le classement fourni par la machine de recherche. De cette maniere, la machine de recherche peut mettre au point de facon plus precise sa recherche et son classement en vue de repondre aux criteres specifiques de l'utilisateur.

Legal Status (Type, Date, Text)
Publication 20010510 A2 Without international search report and to be republished upon receipt of that report.

Main International Patent Class: G06F-017/30 Fulltext Availability:

· .Detailed Description

Detailed Description

... material resources, catalogs for purchasing or Internet shopping, or other forms of information.

While discussion of the preferred embodiment may refer to documents of the database 110, the search machine 100 may operate on databases that are not strictly in the form of documents. More generally, the term document does not connote any particular structure, but is used to generically refer to any partition, subdivision, component, section, or part of the database, however it may be divided or demarcated. Ad 30 ditionally, the database 110, and documents 111 that may be contained in the database 110, are not required

to have any special structure or organization. The search machine 100, however, could exploit a special structure or organization of the database 110 by integrating, for example, appropriate structure analyzers to improve the search machine's accuracy and efficiency.

Additionally, the search machine according to the present invention is not restricted to a specific environment, such as database retrieval, but may also be used in various contexts, such as context-sensitive online help in complex working and information environ ments, retrieval of relevant information in tutor and advisory systems, decision support for the organization of information databases, and information agents which search to build up, organize and maintain new information databases.

The document database 110 should contain the documents 111 that are to be evaluated for content re sponsive to the query document 10. The database...

8/5,K/41 (Item 28 from file: 349)

DIALOG(R) File 349:PCT FULLTEXT

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00797933 \*\*Image available\*\*

METHOD AND APPARATUS FOR PROCESSING QUERIES PROCEDE ET APPAREIL DE TRAITEMENT DE DEMANDES

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Legal Representative:
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London EC1N 2TE, GB,
Patent and Priority Information (Country, Number, Date):

Patent: WO 200131500 Al 20010503 (WO 0131500)

Application: WO 2000GB4081 20001023 (PCT/WO GB0004081)

Priority Application: EP 99308627 19991029

Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG US UZ VN YU ZA ZW

- (EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE
- (OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
- (AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW
- (EA) AM AZ BY KG KZ MD RU TJ TM

· Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English Fulltext Availability:
Detailed Description

Claims

Fulltext Word Count: 9773

### English Abstract

Apparatus for processing queries, which queries may be expressed in natural language, the apparatus comprising: (i) decoding means for decoding a query into one or more semantically meaningful query elements; (ii) accessing means for accessing data storage, which data storage includes at least one annotation element and one or more corresponding data entries; (iii) identifying means for identifying annotation elements in accordance with the semantically meaningful query elements; and (iv) retrieval means for retrieving at least one data entry corresponding to each identified annotation element.

#### French Abstract

La presente invention concerne un appareil de traitement de demandes, ces demandes pouvant etre exprimees en langage naturel. Cet appareil comprend: (i) un organe de decodage destine a decoder une demande en un ou plusieurs elements de demande significatif du point de vue de la semantique, (ii) un organe d'acces destine a acceder a un stock de donnees, ce stock incluant au moins un element d'annotation et une ou plusieurs entrees de donnees correspondantes, (iii) un organe d'identification destine a identifier des elements d'annotation en conformite avec les elements de demande significatifs du point de vue de la semantique, et (iv) un organe de localisation destine a localiser au moins une entree de donnees correspondante a chaque element d'annotation identifie.

Legal Status (Type, Date, Text)
Publication 20010503 A1 With international search report.
Examination 20010816 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

### Detailed Description

... be illustrated, by way of example only, with reference to the accompanying drawings, in which.

Figure 1 is a schematic diagram showing apparatus for inputting **queries** to, and receiving information from, a **database** according to the present invention, Figure 2 is a block diagram of the apparatus of Figure 1, showing the arrangement of the data store; Figure...

...of the apparatus of Figure 1, showing the components comprising the analysing means according to the first embodiment; Figure 4 is a flow diagram of query processing performed by the analysing means of Figure 3; Figure 5 is a flow diagram of further query processing performed by the analysing means of Figure 3; 5 Figure 6 is a flow diagram of processing a new input according to the second embodiment; Figure 7 is a...

... Figure 8 is a block diagram of the apparatus of Figure 1 , showing the components comprising the analysing means according to the second

```
. embodiment for query
  analysis;
  Figure 9a is an illustration of an input display for entering annotations
  according to
  the second embodiment;
  5 Figure 9b is a block diagram...
...for an alternative configuration of the client/server arrangement
  shown in Figure 1
  Overview
  Referring to Figure 1 , an embodiment of the apparatus for inputting
  queries to, and receiving information from, a data source is shown
  divided into 5 functional parts.
   SERVER
   STORAGE
   DATA ANALYSIS
   USER INTERFACE
  * RETRIEVAL
  The SERVER computer...106 on the server computer 105, or may be a
  separate data store located either local to or remote from the server
  105. The functions performed by the query analyser 302, the pattern matcher 304 and the generator 303 may be written in
  IServer data held on the client
  the Perl programming language. However, it is understood that the use of
  Perl is inessential to the invention. The input mechanism allows authors,
  who are populating the database with new entries, to enter the
  corresponding annotation without having to conform to any programming
  standards. Clearly this is an 5 advantage as entries may...
 8/5,K/52
               (Item 39 from file: 349)
DIALOG(R) File 349: PCT FULLTEXT
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00577722
METHOD AND APPARATUS FOR PERFORMING SUPPLEMENTAL SEARCHES OVER A NETWORK
PROCEDE ET APPAREIL POUR EFFECTUER DES RECHERCHES SUPPLEMENTAIRES SUR UN
    RESEAU
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  TEDESCO Daniel E,
  WALKER Jay S,
  KESSMAN Marc D,
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  KESSMAN Marc D,
Patent and Priority Information (Country, Number, Date):
                         WO 200041095 A2 20000713 (WO 0041095)
  Patent:
                         WO 99US27776 19991123 (PCT/WO US9927776)
  Application:
  Priority Application: US 98223899 19981231
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE
  ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT
  LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT
  UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM AZ BY KG KZ
  MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE BF BJ
  CF CG CI CM GA GN GW ML MR NE SN TD TG
Main International Patent Class: G06F-017/27
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 10582
English Abstract
   A method and apparatus are disclosed for cooperating with a first
```

software program to perform a supplemental search over the Internet or

' another public network. A supplemental search is performed in the background to obtain desired information, while the user continues the primary task of creating, for example, a document. The user does not have to divert his or her attention from the primary task of creating the document to manually initiate a search. An illustrative word processing application program spawns a background thread in a multithreaded environment to perform the supplemental search using a browser, while the word processing application program maintains continuous control until the search results are obtained and viewed by the user. A supplemental search can be performed on a given topic (i) when requested by a user, or (ii) automatically, if a predefined condition, such as the occurrence of an apparently improper data element that fails to satisfy the requirements of a spelling or grammar database, is detected in a document of an application program. Thus, the invention can be configured to perform Internet-based spelling or grammar checking and automatically detect the adoption of new words or phrases and changes in acceptable grammar usage. In addition, the word processing application program automatically determines if a document being created corresponds to one or more predefined categories. If a document being created corresponds to a predefined category, the document can optionally be provided to an expert associated with said identified category for review.

### French Abstract

L'invention porte sur un procede et un appareil permettant de collaborer avec un premier programme logiciel de facon a effectuer une recherche supplementaire sur Internet ou un autre reseau public. La recherche supplementaire est effectuee dans la zone de fond de facon a obtenir les informations desirees tandis que l'utilisateur continue d'effectuer la tache primaire de creation telle qu'un document. L'utilisateur n'est pas detourne de sa tache primaire de creation de document lorsqu'il declenche manuellement une recherche. Un programme d'application de traitement de mots illustre genere dynamiquement un chemin de fond dans un environnement a plusieurs chemins pour effectuer la recherche supplementaire a l'aide d'un navigateur, tandis que le programme d'application de traitement de mots maintient une commande continue jusqu'a l'obtention des resultats de recherche et leur visualisation. Une recherche supplementaire peut etre effectuee sur un sujet donne (1) demande par un utilisateur, ou (ii) automatiquement, si un etat predefini, tel que l'occurrence d'un element de donnee apparemment impropre qui ne peut satisfaire aux exigences d'une base de donnees d'orthographe ou de grammaire, est detecte dans un document d'un programme d'application. Ce systeme peut donc etre configure de facon a effectuer une verification d'orthographe ou de grammaire a partir d'Internet et a detecter automatiquement l'adoption de nouveaux mots ou phrases et les corriger selon les usages grammaticaux acceptables. Ce programme d'application de traitement de mots peut egalement determiner automatiquement si un document cree correspond a une ou plusieurs categories predefinies. Si un document cree correspond a une categorie predefinie, le document peut eventuellement etre envoye a un expert associe a la categorie identifiee afin d'etre revise.

Main International Patent Class: G06F-017/27 Fulltext Availability:
Detailed Description

### Detailed Description

... have io to divert his or her attention from the primary task of creating the document to manually initiate a search.

In addition, a supplemental search can be performed automatically if a predefined condition is detected in a document of an application program. For example, a supplemental search can be performed to evaluate the usage of an apparently improper data element that falls to satisfy the requirements of a spelling or grammar database associated with the word processing application program. A supplemental search of an apparently improper data element can be launched automatically if the apparently improper data element appears more than a threshold number of times in a document. The supplemental usage search is launched in the background,

.transparent to the user, and the user continues working in the word processing application program until the **search** results are received. Thus, the present invention can be configured to perform Internet-based spelling or grammar checking.

Once the search results are received, the...

8/5,K/53 (Item 40 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00565068 \*\*Image available\*\*

A DENSITY-BASED INDEXING METHOD FOR EFFICIENT EXECUTION OF HIGH-DIMENSIONAL NEAREST-NEIGHBOR QUERIES ON LARGE DATABASES

PROCEDE D'INDEXATION BASE SUR LA DENSITE PERMETTANT DE TRAITER EFFICACEMENT DES DEMANDES DE GRANDES DIMENSIONS PAR RECHERCHE DU VOISINAGE LE PLUS PROCHE DANS DE GRANDES BASES DE DONNEES

Patent Applicant/Assignee:
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Inventor(s):
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 GEIGER Dan,

Patent and Priority Information (Country, Number, Date):
Patent: WO 200028441 A2 20000518 (WO 0028441)

Application: WO 99US26366 19991109 (PCT/WO US9926366)

Priority Application: US 98189229 19981111

Designated States: JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability: Detailed Description

Claims

Fulltext Word Count: 9455

### English Abstract

Method and apparatus for efficiently performing nearest neighbor queries on a database of records wherein each record has a large number of attributes by automatically extracting a multidimensional index from the data. The method is based on first obtaining a statistical model of the content of the data in the form of a probability density function. This density is then used to decide how data should be reorganized on disk for efficient nearest neighbor queries . At query time, the model decides the order in which data should be scanned. It also provides the means for evaluating the probability of correctness of the answer found so far in the partial scan of data determined by the model. In this invention a clustering process is performed on the database to produce multiple data clusters. Each cluster is characterized by a cluster model. The set of clusters represent a probability density function in the form of a mixture model. A new database of records is built having an augmented record format that contains the original record attributes and an additional record attribute containing a cluster number for each record based on the clustering step. The cluster model uses a probability density function for each cluster so that the process of augmenting the attributes of each record is accomplished by evaluating each record's probability with respect to each cluster. Once the augmented records are used to build a database the augmented attribute is used as an index into the database so that nearest neighbor query analysis can be very efficiently conducted using an indexed look up process. As the database is queried , the probability density function is used to determine the order clusters or database pages are scanned. The probability density function is also used to determine when scanning can stop because the nearest neighbor has been found with high probability.

#### French Abstract

L'invention concerne un procede et un appareil, permettant de traiter efficacement des demandes par recherche du voisinage le plus proche dans

. une base de donnees d'enregistrements, chaque enregistrement possedant un grand nombre d'attributs obtenus par extraction automatique d'un index multidimensionnel a partir des donnees. Ce procede consiste d'abord a obtenir un modele statistique du contenu des donnes, sous la forme d'une fonction de densite de probabilite. On utilise ensuite cette densite pour definir la maniere de reorganiser les donnees sur un disque, pour traiter efficacement des demandes de recherche du voisinage le plus proche. Au moment de la demande, le modele decide l'ordre dans lequel les donnees doivent etre balayees. Il fournit egalement les moyens d'evaluer la probabilite d'exactitude de la reponse trouvee dans le balayage partiel des donnees determinees par le modele. Dans cette invention, un procede d'agregation est execute dans la base de donnees, afin de produire plusieurs grappes de donnees. Chaque grappe est caracterisee par un modele de grappe. L'ensemble des grappes represente une fonction de densite de probabilite sous la forme d'un modele de melange. Une nouvelle base de donnees est construite, les enregistrements presentant un format plus grand qui contient les attributs d'enregistrement originaux, et des attributs d'enregistrement supplementaires contenant un certain nombre de grappes pour chaque enregistrement sur la base de l'etape d'agregation. Le modele de grappe utilise une fonction de densite de probabilite pour chaque grappe, de sorte que le processus d'augmentation des attributs de chaque enregistrement est realise par evaluation d'une probabilite de chaque enregistrement par rapport a chaque grappe. Une fois qu'on a utilise les enregistrements augmentes pour construire la base de donnees, les attributs augmentes sont utilises comme index dans ladite base de donnees, de sorte que l'analyse d'une demande de voisinage le plus proche peut etre traitee tres efficacement au moyen d'un procede de recherche d'index. Lorsque la base de donnees est demandee, la fonction de densite de probabilité est utilisee pour determiner l'ordre dans lequel les grappes ou les pages de base de donnees sont balayees. La fonction de densite de probabilite est egalement utilisee pour determiner le moment ou le balayage doit s'arreter, du fait que le voisin le plus proche a ete trouve avec une probabilite elevee.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

# English Abstract

Method and apparatus for efficiently performing nearest neighbor queries on a database of records wherein each record has a large number of attributes by automatically extracting a multidimensional index from the data. The method is based on...

- ...the form of a probability density function. This density is then used to decide how data should be reorganized on disk for efficient nearest neighbor queries. At query time, the model decides the order in which data should be scanned. It also provides the means for evaluating the probability of correctness of the answer found so far in the partial scan of data determined by the model. In this invention a clustering process is performed on the database to produce multiple data clusters. Each cluster is characterized by a cluster model. The set of clusters represent a probability density function in the form of a mixture model. A new database of records is built having an augmented record format that contains the original record attributes and an additional record attribute containing a cluster number for...
- ...of each record is accomplished by evaluating each record's probability with respect to each cluster. Once the augmented records are used to build a database the augmented attribute is used as an index into the database so that nearest neighbor query analysis can be very efficiently conducted using an indexed look up process. As the database is queried, the probability density function is used to determine the order clusters or database pages are scanned. The probability density function is also used to determine when scanning can stop because the nearest neighbor has been found with high...

.... invention. Although both the clustering component C and, the query component QC are depicted in Figure 213, it is appreciated that the clustering can be performed independently of the query. The query analysis component QC finds with high probability a nearest neighbor (NN) of a query point Q presented as an input to the query analysis component. The nearest neighbor of Q is then found in one of two ways. A decision step 15 determines whether a complete scan of the database is more efficient than a probabalistic search for the nearest neighbor (NN). If the complete scan is more efficient, the scan is performed 16 and the nearest neighbor identified. If not, a region is chosen 17 based on the query point and that region is scanned 18 to determine the nearest neighbor within the region. Once the nearest neighbor (NN) in the first identified region...

...check for a nearest neighbor or neighbors. Eventually the nearest neighbor or neighbors are found with acceptable certainty and the results are output from the **query** analysis component QC.

To illustrate the process of finding a nearest neighbor outlined in Figure 2B consider the data depicted in Fiugres 3A and 3B...

8/5,K/58 (Item 45 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00474266 \*\*Image available\*\*

APPARATUS AND METHODS FOR AN INFORMATION RETRIEVAL SYSTEM THAT EMPLOYS NATURAL LANGUAGE PROCESSING OF SEARCH RESULTS TO IMPROVE OVERALL PRECISION

APPAREIL ET PROCEDES POUR SYSTEME D'EXTRACTION D'INFORMATION UTILISANT LE TRAITEMENT EN LANGAGE NATUREL DES RESULTATS DE RECHERCHE POUR AMELIORER LA PRECISION GLOBALE

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Inventor(s):
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CORSTON Simon H,
DOLAN William B,
VANDERWENDE Lucy H,
Patent and Priority Inform

Patent and Priority Information (Country, Number, Date):

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Application: WO 98US9711 19980513 (PCT/WO US9809711)

Priority Application: US 97898652 19970722

Designated States: CN JP AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description Claims

Fulltext Word Count: 20517

# English Abstract

Apparatus and accompanying methods for an information retrieval system that utilizes natural language processing to process results retrieved by, for example, an information retrieval engine such as a conventional statistical-based search engine, in order to improve overall precision. Specifically, such a search ultimately yields a set of retrieved documents. Each such document is then subjected to natural language processing to produce a set of logical forms. Each such logical form encodes, in a word-relation-word manner, semantic relationships, particularly argument and adjunct structure, between words in a phrase. A user-supplied query is analyzed in the same manner to yield a set of corresponding logical forms therefor. Documents are ranked as a predefined function of the logical forms from the documents and the query. Specifically, the set of logical forms for the query is then compared against a set of logical forms for each of the retrieved

.documents in order to ascertain a match between any such logical forms in both sets. Each document that has at least one matching logical forms is heuristically scored, with each different relation for a matching logical forms being assigned a different corresponding predefined weight. The score of each such document is, e.g., a predefined function of the weights of its uniquely matching logical forms. Finally, the retained documents are ranked in order of descending score and then presented to a user in that order.

### French Abstract

Appareils et procedes associes, pour un systeme de recherche d'information utilisant le traitement en langage naturel pour traiter les resultats extraits, par exemple, par un moteur d'extraction d'information comme un moteur de recherche a base statistique classique, afin d'ameliorer la precision globale. Ladite recherche permet notamment de produire en final un ensemble de documents extraits. Chaque document est ensuite soumis a un traitement en langue naturelle de sorte qu'un ensemble de formes logiques soit produit. Chaque forme logique code, en mode mot-relation-mot, les relations semantiques, notamment la structure d'argument et d'adjonction, entre les mots d'une phrase. Une demande formulee par l'utilisateur est analysee de la meme maniere de sorte qu'un ensemble de formes logiques correspondantes soit produit. Les documents sont classes en fonction, de maniere predeterminee, des formes logiques provenant des documents et de la demande. Specifiquement, l'ensemble de formes logiques pour la demande est ensuite compare a un ensemble de formes logiques pour chacun des documents extraits, de maniere qu'un appariement soit etabli entre chaque forme logique des deux ensembles. Chaque document qui presente au moins une forme logique appariee est evalue de maniere heuristique, un poids predefini different et correspondant different etant attribue a chaque relation differente pour une forme logique appariee. L'evaluation de chaque document est fonction, par exemple, de maniere predeterminee, des poids de ses formes logiques appariees uniques. Les documents retenus sont ensuite classes dans l'ordre decroissant puis presentes a un utilisateur dans cet ordre.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

### Detailed Description

... next group of document records having the next highest rankings, and so forth until all the retrieved document records have been so reviewed.

Traditionally, the performance of search engines has been assessed in terms of recall and precision. Recall measures, as a percentage of all relevant documents in a dataset, the number of such documents actually retrieved in response to a given query. Precision, on the other hand, measures, as a percentage of all documents retrieved, the number of those documents that are actually relevant to the query. We believe that in the context of a web search engine, recall is not an important metric of performance, inasmuch as the sheer number of documents ultimately retrieved is unimportant. In fact, for some queries, this number could be inordinately large.

Hence, we believe that not all relevant documents indexed by the engine need to be retrieved in order to...

8/5,K/61 (Item 48 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00441600 \*\*Image available\*\*
A SYSTEM AND METHOD FOR DATABASE QUERY OPTIMIZATION

# SYSTEME ET PROCEDE PERMETTANT D'OPTIMISER L'INTERROGATION D'UNE BASE DE DONNEES

Patent Applicant/Assignee: TANDEM COMPUTERS INC,

Inventor(s):
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VAISHNAV Jay, ZELLER Hansjorg,

Patent and Priority Information (Country, Number, Date):

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Application: WO 97US23087 19971215 (PCT/WO US9723087)

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Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability: Detailed Description

Claims

Fulltext Word Count: 18208

### English Abstract

A system and method for optimizing (402) a database query with improved performance enhancements is herein disclosed. The database query consists of one or more logical expressions (304). Through the repeated application of one or more rules (335), the logical expressions (304) are transformed into physical expressions (306) and in some cases, execution plans that implement the database query. Each expression (311) has associated with it a set of group attributes that specifies its characteristic inputs and outputs and a cost (346) that estimates the computational expense for executing the expression. The group attributes are used to categorize similar expressions into groups that are stored in a search data structure. They are also used to track duplicate expressions. The cost associated with an expression is used to guide the search process to consider those expressions that will produce low cost plans.

### French Abstract

La presente invention concerne un systeme et un procede permettant d'optimiser l'interrogation d'une base de donnees au moyen d'elements qui en ameliorent le rendement. L'interrogation d'une base de donnees est composee d'une ou plusieurs expressions logiques. En appliquant une ou plusieurs regles de facon repetee, on transforme les expressions logiques en expressions physiques et, dans certains cas, en plans d'execution qui permettent d'executer l'interrogation de la base de donnees. A chaque expression est associe un ensemble d'attributs de groupe qui specifie les entrees et sorties caracteristiques de l'expression, ainsi qu'un cout qui represente l'estimation de la depense computationnelle entrainee par l'execution de l'expression. Les attributs de groupe sont utilises pour classer les expressions similaires en groupes, lesquels sont stockes dans une structure de recherche de donnees. Ils sont egalement utilises pour rechercher les expressions doubles. Le cout associe a une expression est utilise pour quider le processus de recherche afin qu'il prenne en consideration les expressions qui produiront des plans a moindre cout. Le cout est evalue en fonction d'un critere en six points, chaque point etant pondere de maniere qu'il tient compte du contexte de l'expression et de l'environnement de calcul propre a l'application. L'optimiseur d'interrogation est base sur des regles, y compris des regles de transformation et d'implementation, qui sont utilisees pour realiser les transformations sur les expressions logiques dans un sous-probleme afin de produire un plan. Un procede de guidage "application unique" (OnceGuidance) est utilise pour choisir, dans certains cas, un groupe de regles qui empechent que soit a nouveau generee une expression qui existe

Main International Patent Class: G06F-017/30

Fulltext Availability:

Detailed Description

... manner, only those

equivalent expressions that will produce more promising solutions in the -38

subsequent optimization are generated rather than all possible transformations.

The Memo search structure tracks each solution or plan considered by the

search engine , even those that are eliminated from consideration due to their excessive cost. However, duplicate expressions can be generated during the

 ${\tt search}$  process. A redundancy  ${\tt check}$  is  ${\tt performed}$  before an expression is

stored in the Memo search structure. This check eliminates the retention of duplicate expressions in the Memo search structure.

### MULTIPASS OPTIMIZATION

In a preferred embodiment of the present invention, multiple optimization passes are performed. During the first optimization pass, only those rules that...

### 8/5,K/62 (Item 49 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00418777 \*\*Image available\*\*

METHOD AND SYSTEM FOR USING MATERIALIZED VIEWS TO EVALUATE QUERIES INVOLVING AGGREGATION

PROCEDE ET SYSTEME UTILISANT DES VUES MATERIALISEES POUR EVALUER DES REQUETES FAISANT INTERVENIR UNE LOGIQUE D'AGREGATION

Patent Applicant/Assignee:

AT & T CORP,

Inventor(s):

DAR Shaul,

JAGADISH Hosagrahar Visvesvaraya,

LEVY Alon Yitzchak,

SRIVASTAVA Divesh,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9809238 Al 19980305

Application: WO 97US14660 19970819 (PCT/WO US9714660) Priority Application: US 9624635 19960827; US 97895024 19970716

Designated States: CA JP AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 10757

# English Abstract

The present invention is a method and system for using materialized views to compute answers to SQL queries with grouping and aggregation. A query is evaluated by using a materialized view. The materialized view is semantically analyzed to determine whether the materialized view is usable in evaluating an input query. The semantic analysis includes determining that the materialized view does not project out any columns needed to evaluate the input query and determining that the view does not discard any tuple that satisfies a condition enforced in the input query. If the view is usable, the input query is rewritten to produce an output query that is multi-set equivalent to the input query and that specifies one or more occurrences of the materialized view as a source of information to be returned by the output query. The output query is then evaluated. The semantic analysis an rewritting may be iterated, with the output query of each iteration being the input query of the next iteration. The output query is evaluated after the last iteration.

, La presente invention concerne un procede et un systeme utilisant des vues materialisees pour calculer par regroupement et agregation les reponses a des requetes SQL. L'evaluation d'une requete se fait en utilisant une vue materialisee. Une analyse semantique de la vue materialisee permet de verifier si la vue materialisee est utilisable pour evaluer une requete d'entree. L'analyse semantique consiste a verifier que la vue materialisee ne deborde pas des colonnes necessaires a l'evaluation des requetes d'entree et a verifier que la vue ne detruit pas de ligne satisfaisant une condition instauree dans la requete d'entree. Si la vue est utilisable, une reecriture de la requete donne une requete de sortie qui soit en equivalence, par plusieurs ensembles, avec la requete d'entree et qui specifie une ou plusieurs occurrences de la vue materialisee comme origine de l'information que la requete de sortie doit renvoyer. La requete de sortie subit alors une evaluation. Les operations d'analyse semantique et de reecriture sont repetables, la sortie de chaque iteration constituant la requete d'entree de l'iteration suivante. Ce n'est qu'apres la derniere iteration que la requete de sortie est soumise a evaluation.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description
Detailed Description
... views to compute the answers.

Fulltext Availability:

There has been previous work on using views to answer queries (e.g.,  ${\tt H.}$  Z.

Yang and P. A. Larson, "Query transfon-nation for PSJ-queries," In Proc. VLDB, 1987; M. Stonebraker, A. Jhingran, J. Goh, and S. Potamianos, "On rules, procedures, caching and views in database systems", In Proc. ACM SIGNIOD, 1 5 1990; O. G. Tsatalos, M. H. Solomon, and Y. E. Ioannidis, "The GN4AP: A versatile tool for physical data independence", In.Proc. VLDB, 1994; C. M. Chen and N. Roussopoulos, "The implementation and performance evaluation of the ADMS query optimizer: Integrating query result caching and matching", In Proc.

EDBT, 1994; S. Chaudhuri, R. Krishnamurthy, S. Potamianos, and K. Shim, "Optimizing queries with materialized views", In. Proc. ICDE...

8/5,K/67 (Item 54 from file: 349) DIALOG(R) File 349: PCT FULLTEXT (c) 2003 WIPO/Univentio. All rts. reserv. \*\*Image available\*\* END USER QUERY FACILITY LOGICIEL DE CONSULTATION INDIVIDUELLE Patent Applicant/Assignee: ST COMPUTER SYSTEMS & SERVICES LIMITED, Inventor(s): YONG Dennis, CHENG Viktor Choong-Hung, LIM Liat, TAY Siew Choon, Patent and Priority Information (Country, Number, Date): Patent: WO 9617312 A1 19960606 WO 95IB998 19951113 (PCT/WO IB9500998) Priority Application: US 94346507 19941129 Designated States: AL AM AT AU BB BG BR BY CA CH CN CZ DE DK EE ES FI GB GE HU IS JP KE KG KP KR KZ LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK TJ TM TT UA UG UZ VN KE LS MW SD SZ UG AT BE CH DE DK ES FR GB GR IE IT LU MC NL PT SE BF BJ CF CG CI CM GA GN ML MR NE SN Main International Patent Class: G06F-017/30 Publication Language: English

. Detailed Description Claims

Fulltext Word Count: 21539

#### English Abstract

An end user query technology is taught which is capable of automatically understanding the database model and guiding the user to scout for the desired information, thereby increasing productivity and ease of information access. The user is freed from the need to understanding the database model, with the end user query facility of this invention quickly guiding the user to acquire the information. This is made possible by the end user query facility of this invention first recapturing the application semantics from the existing database model to provide a set of derived semantics. The derived semantics are then used by the end user query facility to intelligently guide the user to scout for the desired information in the database. In addition, the derived semantics can be easily updated by the end user query facility when the database model is changed.

### French Abstract

L'invention concerne un logiciel de consultation individuelle permettant de comprendre automatiquement le modele de base de donnees et de guider l'utilisateur dans sa recherche des informations desirees, augmentant ainsi la productivite et la facilite de l'acces aux informations. L'utilisateur est degage de la necessite de comprendre le modele de base de donnees, ce logiciel de consultation individuelle le guidant rapidement pour acquerir les informations. Ce logiciel de consultation individuelle permet tout d'abord de saisir a nouveau la semantique de l'application a partir du modele de base de donnees existant en vue de creer un ensemble semantique derive. Ce dernier est ensuite utilise par le logiciel de consultation individuelle pour guider intelligemment l'utilisateur dans sa recherche des informations desirees dans la base de donnees. En outre, cet ensemble semantique derive peut etre aisement actualise par le logiciel de consultation individuelle lors de la modification du modele de base de donnees.

Main International Patent Class: G06F-017/30 Fulltext Availability:
Detailed Description

Detailed Description

... an E-R model of the class.

2

In addition these classes and their E-R models can be easily updated by the end-user query facility when the database model is changed,

In accordance with the teachings of this invention, it has also been determined that there would be some usefulness in providing an end-user query technology that allows a user at a remote site with no on-line access to the database to still be able to make a query. This is made possible by integrating the end-user query facility of this invention with an electronic mail system so that the user at the remote site can send his query as a mail message and have the result of his query posted to him also as a mail message. In addition, a log of all query requests and their processing can be kept and analyzed to track usage and performance of the end-user query facility,
BRIEF DESCRIPTION OF THE DRAWING

Figure 1 is a flow chart depicting one embodiment of an end user query facility constructed in the accordance with the teachings of this invention;

Figure 2 is a flow chart depicting one embodiment of semantics extractor 12 of...

...scout 15 of the

embodiment to Figure 1;

Figure 5 is a flow chart depicting one embodiment of a method suitable for use as the **search** knowledge base step of

13/5,K/20 (Item 20 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT
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00777958 \*\*Image available\*\*

OBJECT BASED IMAGE RETRIEVAL

EXTRACTION D'IMAGE EN FONCTION DE L'OBJET

Patent Applicant/Assignee:

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Inventor(s):

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Legal Representative:

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Patent and Priority Information (Country, Number, Date):

Patent:

WO 200111489 A2 20010215 (WO 0111489)

Application:

WO 2000US21735 20000809 (PCT/WO US0021735)

Priority Application: US 99370366 19990809

Designated States: AE AG AL AM AT AT (utility model) AU AZ BA BB BG BR BY BZ CA CH CN CR CU CZ CZ (utility model) DE DE (utility model) DK DK (utility model) DM DZ EE EE (utility model) ES FI FI (utility model) GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KR (utility model) KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ PL PT RO RU SD SE SG SI SK SK (utility model) SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZW

(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/00

Publication Language: English

Filing Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 11614

# English Abstract

An image comparison, classification and retrieval system compares objects and object clusters, or images. User controlled or automatic filtering to enhance object features may be performed prior to object definition. Calculated parameter set is assigned to defined objects. User controlled or automatic object definition system with multi- or single object layer output. The query image may be substantially continuously displayed during the image filtering and object definition processes. The query object, a cluster of objects or an image may be classified as belonging to one of previously defined classes and according to calculated similarity indices. An object, a cluster of objects or an image can be retrieved from an image database based on a query image calculated similarity indices.

#### French Abstract

L'invention concerne un systeme de comparaison, de classification et d'extraction d'images, qui consiste a comparer des objets et des blocs d'objets, ou des images. Un filtrage automatique ou regle par l'utilisateur pour renforcer des caracteristiques d'objet peut etre effectue avant de definir l'objet. On attribue aux objets definis un ensemble de parametres calcule. L'invention concerne en outre un systeme, automatique ou regle par l'utilisateur, de definition de l'objet presentant une sortie de couche d'objet simple ou multiple. On peut afficher sensiblement et en continu l'image requete pendant les processus de filtrage d'image et de definition d'objet. L'objet requete, un groupe d'objets ou une image peuvent etre classes comme appartenant a l'une des classes precedemment definies et en fonction d'indices de similitude calcules. On peut extraire un objet, un groupe d'objets ou une image a partir d'une base de donnees d'images en fonction d'indices de similitude calcules d'une image requete.

مند

Legal Status (Type, Date, Text)

Publication 20010215 A2 Without international search report and to be republished upon receipt of that report.

Examination 20010531 Request for preliminary examination prior to end of 19th month from priority date

Correction 20020718 Corrected version of Pamphlet: pages 1/9-9/9,

drawings, replaced by new pages 1/9-9/9; due to late

transmittal by the receiving Office

Republication 20020718 A2 Without international search report and to be republished upon receipt of that report.

Fulltext Availability: Claims

#### Claim

... output; an image display device receiving said filtered image output from said image filter;

an input device providing input parameters for modifying a filtering function **performed** by said image **filter**, whereby an image appearing on said image display device is updated substantially continuously as said filtering function is modified;

a database of images; and

an image comparison module configured to compare said filtered image output I 0 with objects, cluster of objects or images in said database and to select objects, cluster of objects or images in said database which are similar to said filtered image output.

23 In a digital image comparison system comprising an image database and a query image, a method...

### 13/5,K/42 (Item 42 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00398669 \*\*Image available\*\*

SYSTEM AND METHOD FOR AUTOMATED RETRIEVAL OF INFORMATION SYSTEME ET PROCEDE SERVANT A EXTRAIRE AUTOMATIQUEMENT DES INFORMATIONS Patent Applicant/Assignee:

ELECTRONIC DATA SYSTEMS CORPORATION,

Inventor(s):

HAVENS Charnell T,

Patent and Priority Information (Country, Number, Date):

Patent: WO 9739412 A1 19971023

Application: WO 97US6387 19970418 (PCT/WO US9706387)

Priority Application: US 96634640 19960418

Designated States: AU CA JP NZ AT BE CH DE DK ES FI FR GB GR IE IT LU MC NL PT SE

Main International Patent Class: G06F-017/30

Publication Language: English

Fulltext Availability:

Detailed Description

Claims

Fulltext Word Count: 8094

### English Abstract

A system (10) for automated retrieval of information from one or more information sources (30) includes user parameters (14) that specify an attribute (114, 116, 118, 120) of a user (102). A library (18) contains filters (20) that each specify one or more search parameters for an associated attribute (114, 116, 118, 120). A translator (16) selects one or more filters (20) from the library (18) in accordance with the user parameters (14). A searcher (28) retrieves information from the information sources (30) using the selected filters (20).

### French Abstract

Systeme (10) servant a effectuer le retrait automatique d'informations a

-

<u>'</u>

partir d'une ou de plusieurs sources d'informations (30) et comprenant des parametres d'utilisateur (14) indiquant un attribut (114, 116, 118, 120) d'un utilisateur (102). Une banque (18) contient des filtres (20) indiquant chacun un ou plusieurs parametres de recherche d'un attribut associe (114, 116, 118, 120). Un traducteur (16) selectionne un ou plusieurs filtres (20) depuis la banque (18) en fonction des parametres d'utilisateur (14). Un chercheur (28) extrait les informations depuis les sources d'informations (30) au moyen des filtres selectionnes (20).

Fulltext Availability: Claims

from the user.

#### Claim

... with each user according to the attributes associated with the user. As discussed above, each filter 20 and custom filter 22 specifies one or more search parameters associated with the attributes of the user, such as a business role of the user, a vocation of the user, an industry of the user, or a business role of information. Due to the association of search parameters with user attributes, system 10 is able to retrieve selected information that is suitable for the particular information needs of each user each time the user requests information. For example, a filter 20 associated with a particular business role and selected for a user having that business role would contain different search parameters than a filter 20 associated with a different business role. Similarly, a filter 20 associated with a particular vocation, industry, or business role of information and selected for a user having that vocation, industry, or business role of information, respectively, would contain different search parameters than a filter 20 associated with a different vocation, industry, or business role of information, respectively. Translator 16 may also select is one or...

...after translator 16 selects a filter 20 or custom filter 22 for each attribute of the user, system 10 may generate and issue a separate search request for each selected filter 20 or custom filter 22. The information retrieved using the separate search requests might then be consolidated and correlated to eliminate duplicative retrieved information. Alternatively, system 10 may generate and issue one or more comprehensive search requests that each incorporates search parameters for more than one selected filter 20 or custom filter 22. If necessary, the information retrieved using the comprehensive search requests might be consolidated and correlated in a similar manner. Furthermore, translator 16 may manipulate the search parameters associated with the selected filters 20 so that system 10 may generate several search requests for each information request of the user, each search request varying to some degree from the other search requests for the same information request and the same user. As discussed below, after information has been retrieved using the several search requests, system 10 or the user may select the search request most effective in retrieving selected information. The selected search request could then be used to satisfy subsequent information requests

System 10 may generate and issue a series of nested search requests that first retrieve information according to a selected filter 20 that is broad, relative to other selected filters 20, and then successively reduce or narrow the retrieved information according to the other selected filters 20 to generate search results. For example, a relatively broad filter 20 corresponding to a particular business role might be used to retrieve information that

could be reduced by successively applying a series of relatively narrow filters 20 to the retrieved information, corresponding to a particular vocation, a particular industry, and a particular business role of information. The present invention contemplates some level of off-line searching capability performed by manipulator 38. whether search parameters are manipulated or combined before search requests are generated using filters 20 and custom filters 22 or whether the information retrieved using filters 20 and custom filters 22 is manipulated or combined in response to being retrieved, the present invention retrieves selected information according to user parameters 14 associated with each user.

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18/5,K/3
                (Item 3 from file: 348)
 DIALOG(R) File 348: EUROPEAN PATENTS
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. 00537211
 Data library system.
 Datenbibliotheksystem.
 Systeme de bibliotheque de donnees.
 PATENT ASSIGNEE:
   International Business Machines Corporation, (200120), Old Orchard Road,
     Armonk, N.Y. 10504, (US), (applicant designated states: DE; FR; GB)
 INVENTOR:
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 LEGAL REPRESENTATIVE:
   Burt, Roger James, Dr. (52152), IBM United Kingdom Limited Intellectual
     Property Department Hursley Park, Winchester Hampshire SO21 2JN, (GB)
 PATENT (CC, No, Kind, Date): EP 501701 A2 920902 (Basic)
                                EP 501701 A3 941214
                                EP 92301486 920221;
 APPLICATION (CC, No, Date):
 PRIORITY (CC, No, Date): US 663096 910301
 DESIGNATED STATES: DE; FR; GB
 INTERNATIONAL PATENT CLASS: G06F-015/40; G06F-015/403
 ABSTRACT EP 501701 A2
```

Library service protocols are provided for moving large data objects into an out of a data image library with attention to security, authentication, and consistency of related images stored in different machines. The protocol consists of partucular message sequences, special tokens within messages, and out-of-sequence database changes. (see image in original document)

ABSTRACT WORD COUNT: 54

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 920902 A2 Published application (Alwith Search Report

;A2without Search Report)

Examination: 930317 A2 Date of filing of request for examination:

930120

Change: 930609 A2 Inventor (change)

Change: 931006 A2 Representative (change)

Change: 941123 A2 Obligatory supplementary classification

(change)

Search Report: 941214 A3 Separate publication of the European or

International search report

Withdrawal: 960221 A2 Date on which the European patent application

was withdrawn: 951227

LANGUAGE (Publication, Procedural, Application): English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count
CLAIMS A (English) EPABF1 1648
SPEC A (English) EPABF1 11628
Total word count - document A 13276
Total word count - document B 0
Total word count - documents A + B 13276

INTERNATIONAL PATENT CLASS: G06F-015/40 ...

### ... G06F-015/403

...SPECIFICATION data schema and integrity rules. However, the inventors have found that the statistics and circumstances of library use are

sufficiently different from those of other database applications to warrant special attention. For example, compared to the records of a traditional database, objets in a library tend to be relatively large, relatively rarely read, very rarely changed, and not directly useful as search indices; to be economical, a library implementation must include an automatic storage hierarchy - a feature which is not found in traditional database management systems. For knowledge workers, it is neither desirable nor possible to predict to which libraries any particularly worker will need access; limited only by...

18/5,K/4 (Item 4 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS
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00128384

Method for storing and retrieving digital information. Verfahren zum Speichern und Wiederauffinden von digitalen Informationen. Procede d'emmagasinage et de recherche d'informations numeriques. PATENT ASSIGNEE:

WANG LABORATORIES INC., (333560), One Industrial Avenue, Lowell, MA 01851, (US), (applicant designated states: BE;DE;FR;GB)
INVENTOR:

Smutek, John Michael, 21 Belmont Road, Billerica, MA 01821, (US) Wenig, Robert Ira, 1365 Pawtucket Blvd., Lowell, MA 01854, (US) Webb, Nancy Jean, 25 Maxwell Drive, Derry, NH 03038, (US) Waisman, Amnon NMN, 11, Whitman Road, Nashua, NH 03062, (US) LEGAL REPRESENTATIVE:

Behrens, Dieter, Dr.-Ing. et al (1701), Wuesthoff & Wuesthoff Patent- und Rechtsanwalte Schweigerstrasse 2, D-81541 Munchen, (DE) PATENT (CC, No, Kind, Date): EP 143164 A2 850605 (Basic)

ATENT (CC, No, Kind, Date): EP 143164 A2 850605 (Ba EP 143164 A3 890913 EP 143164 B1 931006

APPLICATION (CC, No, Date): EP 84108233 840712;

PRIORITY (CC, No, Date): US 538682 831003

DESIGNATED STATES: BE; DE; FR; GB

INTERNATIONAL PATENT CLASS: G06F-015/40

CITED PATENTS (EP A): EP 51218 A

### ABSTRACT EP 143164 A2

Method for storing and retrieving digital information.

An improved technique is presented for organizing digitized information for storage in a relational type tree memory structure where the digitized information is broken up into blocks of a fixed byte size which are then stored throughout the memory. A header is utilized which identifies a text or image and details of how the image was digitized and compressed, to be used in reconstructing the image properly. An index is also utilized in which is the image or text identity but also in which is an index identifying the locations throughout the memory at which the blocks containing the text or image information is stored. Each block has a header identifying what text or image information is stored in the block and having the address of any another block containing related information for the same text or image to thereby create a chaining between the blocks by which they may all be quickly located once a first block is located using the index. A further embodiment of invention allows the storing and display of a base image containing user defined and located subfields and the selective insertion of related data or images, either previously stored or entered by the user, into the subfields. A yet further embodiment allows the use of data contained in the subfields as keys to locate and display further related information. ABSTRACT WORD COUNT: 234

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application: 850605 A2 Published application (Alwith Search Report

;A2without Search Report)

Change: 850731 A2 Title of invention (German) (change)
Change: 850731 A2 Title of invention (French) (change)
Search Report: 890913 A3 Separate publication of the European or

International search report

Examination: 900404 A2 Date of filing of request for examination:

900207

Examination: 901205 A2 Date of despatch of first examination report:

901018

Grant: 931006 B1 Granted patent
Oppn None: 940928 B1 No opposition filed

LANGUAGE (Publication, Procedural, Application): English; English; English

FULLTEXT AVAILABILITY:

Available Text Language Update Word Count CLAIMS B (English) EPBBF1 364 CLAIMS B (German) EPBBF1 340 (French) EPBBF1 CLAIMS B 415 SPEC B (English) EPBBF1 8705 Total word count - document A 0 Total word count - document B 9824 Total word count - documents A + B 9824

INTERNATIONAL PATENT CLASS: G06F-015/40

...SPECIFICATION the standard statistical and pricing information typically entered on cards may be entered in a system including a video display terminal and bulk memory. Using data base searching techniques, the stored information regarding houses for sale may be searched to select a list of houses of possible interest based on size, cost, or location of a house using information supplied by a potential buyer. The potential buyer will then review the results of such a search and will typically select a few of the houses in the search output list for closer review. The final result is one or more houses that the potential buyer actually wants to visit. To aid the potential...

...to minimize the number of visits, the use of the novel method and arrangement in such a relators office setting permits one large relationally oriented data base to include digitized information representing not only such things as the statistical data, but also such things as house floor plans, property plot plans and photographs of the outside and inside of each house. After indicating a house of interest and operating one or two additional...

18/5,K/22 (Item 18 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00813246 \*\*Image available\*\*

A METHOD FOR A GRAPHICAL USER INTERFACE SEARCH FILTER GENERATOR PROCEDE DE GENERATION D'UN FILTRE DE RECHERCHE D'INTERFACE GRAPHIQUE UTILISATEUR

Patent Applicant/Assignee:

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Inventor(s):

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HICKMAN Paul L (agent), Hickman Coleman & Hughes, LLP, P.O. Box 52037, Palo Alto, CA 94303, US,

Patent and Priority Information (Country, Number, Date):

Patent: WO 200146868 A2 20010628 (WO 0146868)

Application: WO 2000US35257 20001222 (PCT/WO US0035257) Priority Application: US 99469402 19991222; US 99471466 19991222; US

99470294 19991222; US 99470214 19991222; US 99469401 19991222

Designated States: AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HR HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ

VN YU ZW
(EP) AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL PT SE TR

(OA) BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG

(AP) GH GM KE LS MW MZ SD SL SZ TZ UG ZW

(EA) AM AZ BY KG KZ MD RU TJ TM

Main International Patent Class: G06F-017/30

Publication Language: English

Filing Language: English Fulltext Availability:
Detailed Description

Claims

Fulltext Word Count: 24826

# English Abstract

A system, method and article of manufacture are provided for allowing selection of filtering criteria during a search utilizing a network. A query field is displayed for entering a search query. The search query entered in the query field is received and a plurality of filters are presented which are applicable during a search utilizing the network. Selection of one or more of the filters is allowed and information relating to the search query is searched utilizing the network. Portions of the information are excluded based on the selected filters to generate a result which is then outputted.

### French Abstract

L'invention concerne un systeme, un procede et un article de fabrication permettant la selection de criteres de filtrage au cours d'une recherche utilisant un reseau. Un champ de requete est affiche afin d'entrer une requete de recherche. La requete de recherche entree dans le champ de requete est recu et plusieurs filtres sont presentes, applicables au cours d'une recherche utilisant le reseau. La selection d'au moins un des filtres est possible et les informations relatives a la requete de recherche sont recherchees au moyen du reseau. Des parties des informations sont rejetees sur la base des filtres selectionnes afin de generer un resultat qui est ensuite emis.

Legal Status (Type, Date, Text)

Publication 20010628 A2 Without international search report and to be

republished upon receipt of that report.

Examination 20011122 Request for preliminary examination prior to end of 19th month from priority date

Main International Patent Class: G06F-017/30

Fulltext Availability: Detailed Description

### Detailed Description

... retrieves the profiles 3520 from the profile database 3530 (which includes product ratings) of those users who have previously rated that product.

Then the system **retrieves** the default thresholds 3540 for the profile matching algorithm from the content **database** 3550. It then maps all of the short list of users along several dimensions specified in the profile matching algorithm 3560. The top n (specified...product ratings from the smaller set of n nearest neighbors are then used to determine a number of product statistics 3590 along several dimensions. Those **statistics** are inserted into a product report **template** 3595 and returned to the user 3597 as a product report.

Personal Profile and Services Ubiquity.

In accordance with an embodiment of the present invention...

### 18/5,K/26 (Item 22 from file: 349)

DIALOG(R) File 349: PCT FULLTEXT

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00577717 \*\*Image available\*\*

SEARCH ENGINE DATABASE AND INTERFACE

BASE DE DONNEES ET INTERFACE POUR MOTEUR DE RECHERCHE

```
Patent Applicant/Assignee:
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  PARSONS John A,
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  ROBERTS John,
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  DEVORE Kristi,
  EARY Matt,
  FAIR Susan,
  BRODERICK Mike,
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  HOTCHKISS Steve,
  DURST Kelly,
  ROBERTS John,
  ELLSWORTH Corey,
  KNUPP Roger,
  DEVORE Kristi,
  EARY Matt,
  FAIR Susan,
  BRODERICK Mike,
  SHOMO William,
 LEE wayne,
Patent and Priority Information (Country, Number, Date):
                        WO 200041090 A1 20000713 (WO 0041090)
                        WO 2000US455 20000110 (PCT/WO US0000455)
 Application:
  Priority Application: US 99115353 19990108; US 99117975 19990129; US
    99119187 19990208; US 99119495 19990210; US 99119636 19990211; US
    99120865 19990219; US 99122357 19990302; US 99124091 19990312; US
    99129140 19990413
Designated States: AE AL AM AT AU AZ BA BB BG BR BY CA CH CN CR CU CZ DE DK
  DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR
  LS LT LU LV MA MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ
  TM TR TT TZ UA UG US UZ VN YU ZA ZW GH GM KE LS MW SD SL SZ TZ UG ZW AM
 AZ BY KG KZ MD RU TJ TM AT BE CH CY DE DK ES FI FR GB GR IE IT LU MC NL
  PT SE BF BJ CF CG CI CM GA GN GW ML MR NE SN TD TG
Main International Patent Class: G06F-015/16
International Patent Class: G06F-017/30
Publication Language: English
Fulltext Availability:
  Detailed Description
  Claims
Fulltext Word Count: 41702
English Abstract
  Internet related local commerce applications are facilitated by a
```

geographically coded search engine database (2). Various user interface features (3, 5, 6, 7, 8, 9, 10, 21, 22, 33) are presented substantially simplifying searching of geographically coded Internet pages. Standard directories are also integrated into Internet based searches to provide greater feedback to users of the system.

#### French Abstract

Les applications commerciales locales liees a l'Internet sont facilitees par une base de donnees de moteur de recherche codee geographiquement (2). Plusieurs caracteristiques d'interface utilisateur (3, 5, 6, 7, 8, 9, 10, 21, 22, 33) sont presentees, et elles permettent de simplifier sensiblement la recherche de pages Internet codees geographiquement. Des repertoires standards sont egalement integres aux recherches sur Internet, et ce en vue de fournir davantage de reactions aux utilisateurs du systeme.

```
Main International Patent Class: G06F-015/16
International Patent Class: G06F-017/30
Fulltext Availability:
  Claims
Claim
... FIG, 1A
  3 1 3 12)
  2 1
  PSTN
  2
  BASE
  STATION
  G TEWA ISP SERVER
  23
  3
  36b
  36f
  36c
  Т
  04
  SEARCH YELLOW
  1 0 PROVIDER'S PAGES'
  WEB SERVER B SERVER
  INTE ET
  SPIDER
  j-) 26
   SEARCH YELLOW
  ENGINE PAGES'
  ENGINE
  2 27-)
  RCH YELLOW
  ENGINE PAGES'
  DATABASE DATABASE
  SUBSTITUTE SHIXT (RULE 26)
  FIG, 1 B 5 3 6
  OTHER SEARCH THE MAPPING
  RING ENGINES, e.g., USER SERVICES
  SPIDE YAHOO
  SERVICES
  LISTING
```

```
8:Ei Compendex(R) 1970-2003/Jun W1
         (c) 2003 Elsevier Eng. Info. Inc.
File 35:Dissertation Abs Online 1861-2003/May
         (c) 2003 ProQuest Info&Learning
File 202: Info. Sci. & Tech. Abs. 1966-2003/May 14
         (c) Information Today, Inc
     65:Inside Conferences 1993-2003/Jun W2
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File
       2:INSPEC 1969-2003/Jun W1
         (c) 2003 Institution of Electrical Engineers
File 233: Internet & Personal Comp. Abs. 1981-2003/May
         (c) 2003 Info. Today Inc.
     94:JICST-EPlus 1985-2003/Jun W2
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         (c) 2003 Japan Science and Tech Corp(JST)
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         (c) 2001 ProQuest Info&Learning
File 483: Newspaper Abs Daily 1986-2003/Jun 09
         (c) 2003 ProQuest Info&Learning
       6:NTIS 1964-2003/Jun W1
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         (c) 2003 NTIS, Intl Cpyrght All Rights Res
File 144: Pascal 1973-2003/May W4
         (c) 2003 INIST/CNRS
File 434:SciSearch(R) Cited Ref Sci 1974-1989/Dec
         (c) 1998 Inst for Sci Info
     34:SciSearch(R) Cited Ref Sci 1990-2003/Jun W1
File
         (c) 2003 Inst for Sci Info
     99:Wilson Appl. Sci & Tech Abs 1983-2003/Apr
File
         (c) 2003 The HW Wilson Co.
File 583: Gale Group Globalbase (TM) 1986-2002/Dec 13
         (c) 2002 The Gale Group
File 266: FEDRIP 2003/Apr
         Comp & dist by NTIS, Intl Copyright All Rights Res
      95:TEME-Technology & Management 1989-2003/May W4
         (c) 2003 FIZ TECHNIK
File 438:Library Lit. & Info. Science 1984-2003/Apr
         (c) 2003 The HW Wilson Co
Set
        Items
                Description
                RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
S1
      4871141
              ? OR PLAN OR PLANS OR POLICY OR POLICIES OR QUERY OR SEARCH
$2
                S1(5N)(PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV?
             OR EFFICIEN? OR SUCCESS?)
S3
                S2(5N) (MEASUR? OR ASSESS? OR EVALUAT? OR ANALYZ? OR ANALYS?
        31088
              OR CHECK??? OR GAUG??? OR QUANTIF? OR JUDG???)
S4
        33417
                S1(10N)STATISTIC?
S5
       722198
                DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR SEARCH()EN-
             GINE? ?
S6
         2760
                S3 AND S5
S7
                RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
      4391776
              ? OR PLAN OR PLANS OR POLICY OR POLICIES
S8
                (PERFORMANCE OR PERFORMED OR PROFICIEN? OR EFFECTIV? OR EF-
             FICIEN? OR SUCCESS?) (3W) S7
                S8(3N) (MEASUR? OR ASSESS? OR EVALUAT? OR ANALYZ? OR ANALYS?
S9
         8291
              OR CHECK??? OR GAUG??? OR QUANTIF? OR JUDG???)
S10
          459
                S5 AND S9
S11
     11395173
                DATA OR INFORMATION OR OBJECT? ? OR CONTENT? ? OR DOCUMENT?
              ? OR RECORD? ? OR FILE? ?
                MEDIA OR MULTIMEDIA OR URL? ? OR UNIFORM() RESOURCE OR PAGE?
S12
      3136976
              ? OR WEBPAGE? ? OR SITE? ? OR WEBSITE? ?
                IMAGE? ? OR GRAPHIC? ? OR PICTURE? ? OR PHOTO? ? OR PHOTOG-
S13
      6107615
             RAPH? ? OR MUSIC OR SOUND OR AUDIO OR RECORDING? ? OR MOVIE? ?
              OR FILM? ?
       284730
                S11:S13(5N)(SEARCH??? OR RETRIEV? OR QUER????)
S14
                S10 AND S14
S15
           79
S16
           56
                RD (unique items)
S17
           49
                S16 NOT PY=2001:2003
S18
        29400
                S7(10N)STATISTIC?
S19
         1412
                S5 AND S18
```

\$20 \$21 \$22 \$23 \$24 \$25 \$26 \$27 \$28	201 1283 115 86 61 54 385 24	S14 AND S19 S2(5N)STATISTIC? S5 AND S21 RD (unique items) S23 AND (SEARCH??? OR RETRIEV? OR QUER????) S24 NOT PY=2001:2003 S8(5N)STATISTIC? S26 AND S5 RD (unique items)
S28 S29	15 6	S28 NOT S25

```
(Item 4 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.
05412695
           E.I. No: EIP99114893526
  Title: Semantic query optimization for ODMG-93 databases
  Author: van Bommel, M.F.
  Corporate Source: St. Francis Xavier Univ, Antigonish, NS, Can
              Title: Proceedings of the 1999 International Database
  Conference
Engineering and Application Symposium, IDEAS'99
  Conference
               Location:
                             Montreal,
                                          Que,
                                                   Can
                                                         Conference
                                                                       Date:
19990802-19990804
  Sponsor: Concordia University
  E.I. Conference No.: 55503
Source: Proceedings of the International Database Engineering and Applications Symposium, IDEAS 1999. p 16-23
  Publication Year: 1999
  CODEN: 002754
  Language: English
  Document Type: JA; (Journal Article) Treatment: T; (Theoretical)
  Journal Announcement: 9912W3
  Abstract: We present a graphical technique for semantic query
optimization for ODMG-93 compliant databases . The OQL object
represented as a graph based on the information contained in the ODL object
schema. The graph reflects the constraints on possible objects satisfying
the query . Vertices represent objects , which may be members of interfaces, ranges of values, constant values, objects returned by
subqueries, object collections (count, sum, etc.), or constructs (sets,
lists, etc). Key constraints and inverse relationships contained in the
schema are used to perform join elimination, join simplification, and scan
reduction via graph transformations. A marking scheme on the graph is used
to perform subquery to join transformations and the detection of
unnecessary duplication elimination. We argue that our approach generalizes
previous research on object -based query optimization by providing a
more natural representation of the query allowing simpler, more intuitive
transformations, and leading to more efficient evaluation
                                                              plans .
(Author abstract)
  Descriptors: Query languages; Optimization; Graph theory; Data
structures; Knowledge acquisition; Constraint theory; Database systems;
Standards
  Identifiers: Semantic query optimization; Object database standard;
Marking scheme
  Classification Codes:
  723.3 (Database Systems); 921.5 (Optimization Techniques); 921.4
(Combinatorial Mathematics, Includes Graph Theory, Set Theory); 723.2
(Data Processing); 723.4 (Artificial Intelligence); 902.2 (Codes &
Standards)
  723 (Computer Software); 921 (Applied Mathematics); 902 (Engineering
Graphics & Standards)
  72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS); 90
(GENERAL ENGINEERING)
            (Item 5 from file: 8)
 17/5/5
DIALOG(R)File 8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.
           E.I. No: EIP99054668766
05279445
  Title: Deriving orthogonality to optimize the search for summary data
  Author: Wang, X. Sean; Li, Chang
  Corporate Source: George Mason Univ, Fairfax, VA, USA
  Source: Information Systems v 24 n 1 Mar 1999. p 47-65
  Publication Year: 1999
  Language: English
  Document Type: JA; (Journal Article) Treatment: A; (Applications); G;
(General Review)
  Journal Announcement: 9906W5
  Abstract: An effective optimization strategy for evaluating
```

statistical queries is to use pre-computed summary data on certain categories. An important step in this strategy is to compare categories for containment in order to decide whether the summary data on one category can be used to compute the summary on another. This paper studies optimization for such comparisons. A category in this paper is represented by a relation whose attributes are partitioned into pair-wise disjoint sets, each called a dimension. A category is said to be orthogonal if it is equal to the cross product of the projections of itself on all the dimensions, and k-partially orthogonal if it is the union of k orthogonal ones. Comparing k-partially orthogonal categories for containment is computationally much easier than comparing arbitrary categories if k is small and all the orthogonal subcategories are known. It is shown however that it is computationally intractable (NP-hard) to partition an arbitrarily given category into the smallest number of orthogonal subcategories. In order to avoid this intractable task but still take advantage of orthogonality, this paper investigates methods that derive orthogonality in categories which are results of relational queries, assuming the orthogonality in input categories is known. The methods are based on a careful examination of each relational operation and on certain auxiliary constructs for labelling orthogonal subcategories. (Author abstract)

Descriptors: Query languages; Relational database systems; Data mining; Data structures; Computational complexity; Online systems; Optimization; Information theory

Identifiers: Online analytical processing (OLAP); Statistical databases; Relational queries

Classification Codes:

723.3 (Database Systems); 723.2 (Data Processing); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming Theory); 722.4 (Digital Computers & Systems); 921.5 (Optimization Techniques); 716.1 (Information & Communication Theory) 723 (Computer Software); 721 (Computer Circuits & Logic Elements); 722 (Computer Hardware); 921 (Applied Mathematics); 716 (Radar, Radio & TV Electronic Equipment)

72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS); 71 (ELECTRONICS & COMMUNICATIONS)

# 17/5/6 (Item 6 from file: 8) DIALOG(R)File 8:Ei Compendex(R) (c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.

05069098 E.I. No: EIP98074300950

# Title: Evaluation of information-seeking performance in hypermedia digital libraries

Author: Salampasis, Michail; Tait, John; Bloor, Chris Corporate Source: Univ of Sunderland, Sunderland, UK

Source: Interacting with Computers v 10 n 3 Jun 1998. p 269-284

Publication Year: 1998

CODEN: INTCEE ISSN: 0953-5438

Language: English

Document Type: JA; (Journal Article) Treatment: G; (General Review)

Journal Announcement: 9809W3

Abstract: Nowadays, we are witnessing the development of new information-seeking environments and applications such as hypermedia digital libraries. Information Retrieval (IR) is increasingly embedded in these environments and plays a cornerstone role. However, in hypermedia digital libraries IR is a part of a large and complex user-centred information-seeking environment. In particular, information seeking is also possible using non-analytical, opportunistic and intuitive browsing strategies. This paper discusses the particular evaluation problems posed by these current developments. Current methods based on Recall (R) and Precision (P) for evaluating IR are discussed, and their suitability for evaluating the performance of hypermedia digital libraries is examined. We argue that these evaluation methods cannot be directly applied, mainly because they do not measure the effectiveness of browsing strategies; the underlying notion of relevance ignores the highly interconnected nature of hypermedia information and misses the reality of how information seekers work in these environments. Therefore, we propose a new quantitative

evaluation methodology, based on the structural analysis of hypermedia networks and the navigational and search state patterns of information seekers. Although the proposed methodology retains some of the characteristics (and criticisms) of R and P evaluations, it could be more suitable than them for measuring the performance of information-seeking environments where information seekers can utilize arbitrary mixtures of browsing and query-based searching strategies. (Author abstract) Descriptors: Information retrieval systems; Online searching; Database systems Identifiers: Hypermedia digital libraries Classification Codes: 903.3 (Information Retrieval & Use); 722.4 (Digital Computers & Systems); 723.3 (Database Systems) 903 (Information Science); 722 (Computer Hardware); 723 (Computer Software) 90 (GENERAL ENGINEERING); 72 (COMPUTERS & DATA PROCESSING) (Item 8 from file: 8) 17/5/8 DIALOG(R) File 8:Ei Compendex(R) (c) 2003 Elsevier Eng. Info. Inc. All rts. reserv. E.I. No: EIP97053662807 Title: Semantic query optimization for object Author: Grant, J.; Gryz, J.; Minker, J.; Raschid, L. Corporate Source: Towson State Univ, Towson, MD, USA Conference Title: Proceedings of the 1997 IEEE 13th International Conference on Data Engineering, ICDE Conference Location: Birmingham, UK Conference Date: 19970407-19970411 Sponsor: IEEE E.I. Conference No.: 46391 Source: Proceedings - International Conference on Data Engineering 1997. IEEE, Los Alamitos, CA, USA, 97CB36038. p 444-453 Publication Year: 1997 CODEN: PIDEEG Language: English Document Type: CA; (Conference Article) Treatment: G; (General Review); T; (Theoretical) Journal Announcement: 9707W3 Abstract: We present a technique for semantic query optimization (SQO) databases . We use the ODMG-93 standard ODL and OQL languages. The ODL object schema and the OQL object query are translated into a DATALOG representation. Semantic knowledge about the object model and the particular application is expressed as integrity constraints. This is an extension of the ODMG-93 standard. SQO is performed in the DATALOG representation and an equivalent logic query , and subsequently an equivalent OQL object query , are obtained. SQO is based on the residue technique of left bracket 3 right bracket . We show that our technique generalizes previous research on SQO for object databases . It can be applied to gueries with structure constructors and method application. It utilizes integrity constraints about keys, methods, and knowledge of access support relations, to produce equivalent queries, which may have more efficient evaluation plans . (Author abstract) 17 Refs. Descriptors: Query languages; Optimization; Object oriented programming; Data structures; Computational linguistics; Formal logic Identifiers: Semantic query optimization (SQO) Classification Codes: 723.3 (Database Systems); 921.5 (Optimization Techniques); 723.1 (Computer Programming); 723.2 (Data Processing); 721.1 (Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory, Programming 723 (Computer Software); 921 (Applied Mathematics); 721 (Computer Circuits & Logic Elements) 72 (COMPUTERS & DATA PROCESSING); 92 (ENGINEERING MATHEMATICS)

17/5/12 (Item 12 from file: 8)
DIALOG(R) File 8:Ei Compendex(R)

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## E.I. No: EIP94101422850 03953269 Title: Sequence query processing Author: Seshadri, Praveen; Livny, Miron; Ramakrishnan, Raghu Corporate Source: Univ of Wisconsin, Madison, WI, USA Conference on Management of Data Location: Conference 19940524-19940527

Conference Title: Proceedings of the 1994 ACM SIGMOD International

Minneapolis, MN, USA Conference Date:

Sponsor: SIGMOD

E.I. Conference No.: 20693

Source: Proceedings of the ACM SIGMOD International Conference on Management of Data v 23 n 2 Jun 1994. Publ by ACM, New York, NY, USA. p 430-441

Publication Year: 1994

CODEN: 000462 ISBN: 0-89791-639-5

Language: English

Document Type: CA; (Conference Article) Treatment: A; (Applications)

Journal Announcement: 9411W3

Abstract: Many applications require the ability to manipulate sequences of data. We motivate the importance of sequence query processing, and present a framework for the optimization of sequence queries based on several novel techniques. These include query transformations, optimizations that utilize meta- data , and caching of intermediate results. We present a bottom-up algorithm that generates an efficient query evaluation plan based on cost estimates. This work also identifies a number of directions in which future research can be directed. (Author abstract) Refs.

Descriptors: Query languages; Database systems; Algorithms;

Optimization; Cost accounting

Identifiers: Sequence query processing

Classification Codes:

723.1.1 (Computer Programming Languages)

723.1 (Computer Programming); 723.3 (Database Systems); 911.1 (Cost Accounting)

723 (Computer Software); 911 (Industrial Economics)

72 (COMPUTERS & DATA PROCESSING); 91 (ENGINEERING MANAGEMENT)

#### 17/5/20 (Item 1 from file: 202)

DIALOG(R) File 202: Info. Sci. & Tech. Abs.

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#### 3703230

#### A survey of Internet searches and their results.

Author(s): Barnett, Andy

Corporate Source: McMillan Memorial Library, Wisconsin Rapids, WI Reference & User Services Quarterly vol. 39, no. 2, pages 177-181

Publication Date: Winter 1999

ISSN: 1094-9054

Journal URL: http://www.ala.org/rusa/rusq

Publisher URL: http://www.ala.org

Language: English

Document Type: Journal Article

Record Type: Abstract

Journal Announcement: 3708

When the Internet is considered an information medium (versus an entertainment medium), the extent that users are able to find that they are seeking is a measure of the Internet's usefulness. About 85% of users go to a search tool when they want to locate something, and search tools are some of the busiest and most profitable sites on the Web. What methods searchers use and how well the various methods work has implications for those instructing new Internet users. Looks at actual searches to determine what kinds of searchers users are performing and how successful various types of searches are. Categorizes the searches according to the search operators used, including search engine math, phrase searches, Boolean

logic, natural word searches, and Web address searches. Assesses the relative success of the various strategies, and considers the implications for user education. retrieval; Search strategies; User behavior; Descriptors: Information Information literacy Classification Codes and Description: 1.4 ( Information research); 1.5 (User behavior and uses of information systems); 10.6 (Education and training Main Heading: Information Science Research; Information Science Research; Libraries and Library Services 17/5/22 (Item 2 from file: 2) DIALOG(R) File 2: INSPEC (c) 2003 Institution of Electrical Engineers. All rts. reserv. INSPEC Abstract Number: C2000-07-7210N-015 6604279 Title: Optimization of run-time management of data intensive Web sites Author(s): Florescu, D.; Levy, A.; Suciu, D.; Yagoub, K. Author Affiliation: INRIA, Rocquencourt, France Conference Title: Very Large Data Bases. Proceedings of the Twenty-Fifth International Conference on Very Large Data Bases p.627-38 Editor(s): Atkinson, M.; Orlowska, M.E.; Valduriez, P.; Zdonik, S.; Brodie, M. Publisher: Morgan Kaufmann Publishers, Orlando, FL, USA Publication Date: 1999 Country of Publication: USA xviii+761 pp. Material Identity Number: XX-1999-02812 Conference Title: Proceedings of 25th International Conference on Very Large Databases Conference Sponsor: Oracle; Sun Microsys.; IBM; Microsoft SQLServer7.0; Scottish Widows Conference Date: 7-10 Sept. 1999 Conference Location: Edinburgh, UK Language: English Document Type: Conference Paper (PA) Treatment: Practical (P) Abstract: An increasing number of Web sites have their data extracted from relational databases . Several commercial products and research prototypes have been moving in the direction of declarative specification of the sites' structure and content. Specifically, the entire site is specified using a collection of queries describing the site 's nodes (corresponding to Web pages and the data contained in them) and edges (corresponding to the hyperlinks). Given this paradigm, an important issue is when to compute the site's pages. Two extreme approaches, with obvious drawbacks, are: (1) to precompute the entire site in advance; and (2) to

relational databases. Several commercial products and research prototypes have been moving in the direction of declarative specification of the sites' structure and content. Specifically, the entire site is specified using a collection of queries describing the site's nodes (corresponding to Web pages and the data contained in them) and edges (corresponding to the hyperlinks). Given this paradigm, an important issue is when to compute the site's pages. Two extreme approaches, with obvious drawbacks, are: (1) to precompute the entire site in advance; and (2) to evaluate on demand all the queries necessary to construct a given page. We consider the problem of automatically optimizing the run-time management of declaratively specified Web sites. In our approach, given a declarative site specification and constraints on the application, an efficient run-time evaluation policy is automatically derived. An evaluation policy specifies which data to compute at a given browser request. We describe several optimizations that can be used in run-time policies, focusing mostly on optimizations that can be used in run-time policies, focusing mostly on optimizations that exploit the structure of the Web site. We evaluate experimentally the impact of these optimizations on a Web site derived from the TPC/D database. Finally, we describe a heuristic-based optimization algorithm which compiles a declarative site specification into a run-time policy that incorporates the proposed optimizations. (25 Refs)

Subfile: C

Descriptors: formal specification; hypermedia; information resources; query processing; relational databases; very large databases

Identifiers: data intensive Web sites; relational databases; declarative specification; site structure; site content; queries; site nodes; Web pages; hyperlinks; site edges; run-time management; run-time policies; TPC/D database; heuristic-based optimization; very large databases

Class Codes: C7210N (Information networks); C6160D (Relational databases); C6110F (Formal methods); C6130M (Multimedia); C6160Z (Other DBMS) Copyright 2000, IEE

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17/5/26
           (Item 6 from file: 2)
DIALOG(R) File 2: INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.
         INSPEC Abstract Number: C9804-4250-020
5863188
  Title: Overview of dynamic query evaluation in intensional query
optimization
 Author(s): Godfrey, P.; Gryz, J.
 Author Affiliation: U.S. Army Res. Lab., Adelphi, MD, USA
 Conference Title:
                      Deductive and Object-Oriented
```

Databases. 5th

International Conference, DOOD '97. Proceedings p.425-6

Editor(s): Bry, F.; Ramakrishnan, R.; Ramamohanarao, K.

Publisher: Springer-Verlag, Berlin, Germany

Publication Date: 1997 Country of Publication: Germany xiv+430 pp.

ISBN: 3 540 63792 3 Material Identity Number: XX97-03001

Conference Title: Deductive Object-Oriented and Databases. 5th International Conference, DOOD'97. Proceedings

Conference Date: 8-12 Dec. 1997 Conference Location: Montreaux, Switzerland

Document Type: Conference Paper (PA) Language: English

Treatment: Theoretical (T)

P. Godfrey and J. Gryz (1996) introduced a new query Abstract: optimization framework called intensional query optimization (IQO). This framework enables existing optimization techniques to be applied to queries over views that employ unions. Advanced database technologies and applications such as federation and mediation over heterogeneous database sources, object oriented databases and query languages, and data warehousing for decision support readily lead to such complex view definitions, and thus tend to incur complex, expensive queries. The IQO framework provides that some of the query's expansions, also called unfoldings, may be explicitly "separated out" of the query. It defines the notion of a discounted query, which is the query annotated to the effect that some of its expansions have been removed. (These removed expansions are called the unfoldings to discount.) Thus this offers us a way to recast complex queries, which use unions, into pieces for which we may have good optimizations. The query's answer set is then equivalent to the union of the answer sets of the unfoldings to discount plus the answer set of the discounted query. For this to be a viable overall optimization strategy, it must be possible to evaluate a discounted query less expensively than the query itself; indeed less expensively than the query itself less the cost of evaluating each unfolding to discount. We contend this is possible, and we motivate and sketch an efficient evaluation strategy discounted queries. (3 Refs)

Subfile: C

Descriptors: database theory; query processing

Identifiers: dynamic query evaluation; intensional query optimization; query optimization framework; IQO; optimization techniques; advanced database technologies; federation; mediation; heterogeneous database sources; object oriented databases; query languages; data warehousing; decision support; complex view definitions; expensive queries.; IQO framework; unfoldings; discounted query; complex queries; answer set; evaluation strategy

Class Codes: C4250 (Database theory); C6160 (Database management systems (DBMS))

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#### 17/5/35 (Item 2 from file: 6)

DIALOG(R)File 6:NTIS

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1714099 NTIS Accession Number: N93-17590/9

Semantic Query Optimization in Distributed Database Systems: A Knowledge-Based Approach

(Ph.D. Thesis) Vankuik, H. J. A. Technische Univ. Twente, Enschede (Netherlands).

Corp. Source Codes: 090700000; U1294434 Report No.: ISBN-90-9003849-3; ETN-92-92534

c1991 200p

Languages: English Document Type: Thesis Journal Announcement: GRAI9310; STAR3105

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NTIS Prices: PC A09/MF A03

Country of Publication: Netherlands

An approach to semantic query optimization in distributed database systems is described. Query optimization is defined as searching for the most efficient query evaluation plan given a query expression, a database state, and the database system characteristics. This search program is recognized to be NP hard. The problem of searching the potentially large search spaces of equivalent expressions is attacked by a combination of multilevel search method and powerful heuristics. The problem of query optimization is decomposed into a number of basic transformation problems. A possible realization of the query optimizer as a knowledge system is discussed.

Descriptors: Data bases; \* Data retrieval; \*Distributed processing; \*Expert systems; \*Knowledge bases (Artificial intelligence); \*Optimization; \*Query languages; \*Semantics; Algorithms; Architecture (Computers); Heuristic methods; Theorem proving; Theorems; Transformations (Mathematics)

Identifiers: \*Foreign technology; Theses; NTISNASAE

Section Headings: 62B (Computers, Control, and Information Theory--Computer Software); 62GE (Computers, Control, and Information Theory--General); 88B (Library and Information Sciences--Information Systems)

#### 17/5/37 (Item 1 from file: 144)

DIALOG(R)File 144:Pascal

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14816391 PASCAL No.: 00-0498878

When information retrieval measures agree about the relative quality of document rankings

LOSEE R M

SILS, Manning Hall, CB#3360, University of North Carolina-Chapel Hill, Chapel Hill, NC 27599-3360, United States

Journal: Journal of the American Society for Information Science, 2000, 51 (9) 834-840

ISSN: 0002-8231 CODEN: AISJB6 Availability: INIST-6025; 354000088829620050

No. of Refs.: 32 ref.

Document Type: P (Serial) ; A (Analytic) Country of Publication: United States

Language: English

The variety of performance measures available for information retrieval systems, search engines, and network filtering agents can be confusing to both practitioners and scholars. Most discussions about these measures address their theoretical foundations and the characteristics of a measure that make it desirable for a particular application. In this work, we consider how measures of performance at a point in a search may be formally compared. Criteria are developed that allow one to determine the percent of time or conditions under which two different performance measures suggest that one document ordering is superior to another ordering, or when the two measures disagree about the relative value of document orderings. As an example, graphs provide illustrations of the relationships between precision and F.

English Descriptors: Information retrieval; Performance evaluation;
Filing; Filter; Measurement; Algorithm; Ordering; Comparative study;
Accuracy; F distribution

French Descriptors: Recherche information; Evaluation performance; Classement; Filtre; Mesure; Algorithme; Relation ordre; Etude comparative ; Precision; Loi F Classification Codes: 001A01E03C; 205 Copyright (c) 2000 INIST-CNRS. All rights reserved. (Item 5 from file: 144) 17/5/41 DIALOG(R) File 144: Pascal (c) 2003 INIST/CNRS. All rts. reserv. 13004781 PASCAL No.: 97-0287842 Directory assistance on FirstSearch : Prospects and potential SALISBURY L; BATSON D University of Arkansas, Fayetteville, United States Journal: Information technology and libraries, 1997, 16 (1) 38-43 ISSN: 0730-9295 CODEN: ITLBDC Availability: INIST-13941; 354000065280210060 No. of Refs.: 10 ref. Document Type: P (Serial) ; A (Analytic) Country of Publication: United States Language: English This paper highlights the advantages in using the Pro CD database on FirstSearch. It also identifies some weaknesses for business use and the constraints caused by the system. We provide guidelines and searching tips that will aid in maximum retrieval, usefulness of results, and cost-effectiveness. English Descriptors: Database ; World wide web; Directory; Telephone; On line; Information retrieval; Compact disk; Information access; Performance evaluation; Search strategy; Cost analysis Broad Descriptors: Information technology; Technologie information; Tecnologia informacion French Descriptors: Base donnee; Reseau WWW; Repertoire; Telephone; En ligne; Recherche information; Disque compact; Acces information; Evaluation performance; Strategie recherche; Analyse cout; FirstSearch; Pro CD; Select Phone Classification Codes: 001A01E03C; 205 Copyright (c) 1997 INIST-CNRS. All rights reserved. (Item 8 from file: 144) 17/5/44 DIALOG(R) File 144: Pascal (c) 2003 INIST/CNRS. All rts. reserv. PASCAL No.: 87-0327945 07848185 Performance analysis of a database filter search hardware PRAMANIK S Michigan state univ., dep. computer sci., East Lansing MI 48823, USA Journal: IEEE transactions on computers, 1986, 35 (12) 1077-1082 ISSN: 0018-9340 Availability: CNRS-222F4 No. of Refs.: 12 ref. Document Type: P (Serial) ; A (Analytic) Country of Publication: USA Language: ENGLISH English Descriptors: Performance analysis; Search algorithm; Filter; Database; Information retrieval; Associati ve storage; Search key;

Data flow; Hardware; Logic circuit

French Descriptors: Analyse performance; Algorithme recherche; Filtre; Base donnee; Recherche information; Memoire associative; Cle recherche; Flot donnee; Materiel(informatique); Circuit logique

Classification Codes: 001D02B10

(Item 1 from file: 34) 17/5/45 DIALOG(R) File 34:SciSearch(R) Cited Ref Sci (c) 2003 Inst for Sci Info. All rts. reserv. Genuine Article#: 384KY Number of References: 27 Title: Performance analysis of parallel query processing algorithms for object -oriented databases Author(s): Su SYW (REPRINT); Ranka S; He X Corporate Source: Univ Florida, Dept Comp & Informat Sci & Engn, Database Syst & Dev Ctr,470 CSE/Gainesville//FL/32611 (REPRINT); Univ Florida, Dept Comp & Informat Sci & Engn, Database Syst & Dev Ctr, Gainesville//FL/32611; Microsoft Corp, Kirkland//MA/ Journal: IEEE TRANSACTIONS ON KNOWLEDGE AND DATA ENGINEERING, 2000, V12, N6 (NOV-DEC), P979-997 ISSN: 1041-4347 Publication date: 20001100 Publisher: IEEE COMPUTER SOC, 10662 LOS VAQUEROS CIRCLE, PO BOX 3014, LOS ALAMITOS, CA 90720-1314 USA Language: English Document Type: ARTICLE Geographic Location: USA Journal Subject Category: COMPUTER SCIENCE, ARTIFICIAL INTELLIGENCE; COMPUTER SCIENCE, INFORMATION SYSTEMS; ENGINEERING, ELECTRICAL & ELECTRONIC Abstract: In recent years, parallel processing and optimization algorithms for processing object-oriented databases have drawn a considerable amount of attention from the database research community. Two general types of algorithms have been introduced: hybrid-hash pointer-based algorithms and multiwavefront algorithms. In this work, we quantitatively analyze the two algorithms and develop analytical formulas to capture the main performance features of these two approaches. We study their performance in three application environments: One is characterized by large databases having many object classes, each of which contains a large number of instances; the second one is characterized by large databases having many object classes, each of which contains a relatively small number of instances; and the third one is by large databases having object classes of varying sizes. A horizontal data partitioning strategy, in which each object class is partitioned into horizontal segments stored across all processors, is used in the first environment. A class-per-node assignment strategy, in which instances of each object class are stored in a single processor, is used in the second environment. In the third environment, object classes are partitioned horizontally and assigned to a varying number of processors depending on their different sizes. Our analytical results show that the multiwavefront algorithm has three distinguishing features which contribute to its better performance: 1) two-phase processing strategy, 2) vertical partitioning of horizontal segments, and 3) dynamic determination of "collision point" in multiwavefront propagations which results in an optimized query execution plan. We show that if these features are adopted by a hybrid-hash, pointer-based algorithm, its performance will be comparable with that of the multiwavefront algorithm because the difference in CPU time between them is negligible. The assumed computing environment is a network of workstations having a share-nothing architecture. The schema and some queries selected from the OO7 benchmark are used in the performance analyses and comparisons. The queries are modified slightly in different data environments in order to reflect the features of diverse database applications.

Descriptors--Author Keywords: object -oriented databases ; parallel query processing algorithms ; performance analysis ; data partitioning strategies ; database benchmark

```
Identifiers--KeyWord Plus(R): JOIN
Cited References:
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    CHEN YH, 1995, V28, P130, J PARALLEL DISTR COM
    CHENG C, 1996, V5, P207, J MANAGE INQUIRY
   CHEN MS, 1992, P58, P 8 INT C DAT ENG
    CLUET S, 1992, P383, P ACM SIGMOD C MAN D
    DEWITT DJ, 1986, P228, P 12 INT C VER LARG
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   GRAEFE G, 1994, QUERY PROCESSING ADV
   HARADA L, 1994, P INT C COMP INF
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   KITSUREGAWA M, 1990, P210, P 16 INT C VER LARG
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   LEE C, 1993, V17, P298, J PARALLEL DISTRIBUT
   LIEUWEN DF, 1993, P172, P 2 INT C PAR DISTR
   MENG W, 1993, P INT C DAT EXP APPL
    SCHNEIDER DA, 1990, P469, P 16 INT C VER LARG
    SCHNEIDER DA, 1989, P110, P ACM SIGMOD C
    SHEKITA EJ, 1990, P300, P ACM SIGMOD C ATL N
   SU SYW, 1991, P46, P 1 INT C PAR DISTR
    SUCIU D, 1996, P366, P 22 VLDB C BOMB IND
    SWAMI A, 1988, P8, P 1988 ACM SIGMOD IN
    THAKORE AK, 1994, V2, P59, DISTRIB PARALLEL DAT
    THAKORE AK, 1990, P127, P INT C PAR PROC AUG
    THAKORE AK, 1995, V7, P487, IEEE T KNOWL DATA EN
    VALDURIEZ P, 1984, V9, P133, ACM T DATABASE SYST
    VALDURIEZ P, 1987, V12, P218, ACM T DATABASE SYST
 17/5/46
             (Item 2 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2003 Inst for Sci Info. All rts. reserv.
05032961
           Genuine Article#: TK446
                                     Number of References: 27
Title: QUERY EVALUATION - STRATEGIES AND OPTIMIZATIONS
Author(s): TURTLE H; FLOOD J
Corporate Source: WEST PUBLISHING CO,610 OPPERMAN DR/EAGAN//MN/55123
Journal: INFORMATION PROCESSING & MANAGEMENT, 1995, V31, N6 (NOV), P831-850
ISSN: 0306-4573
                    Document Type: ARTICLE
Language: ENGLISH
Geographic Location: USA
Subfile: SocSearch; SciSearch; CC ENGI--Current Contents, Engineering,
    Technology & Applied Sciences; CC SOCS--Current Contents, Social &
    Behavioral Sciences
Journal Subject Category: INFORMATION SCIENCE & LIBRARY SCIENCE; COMPUTER
    SCIENCE, INFORMATION SYSTEMS
Abstract: This paper discusses the two major query evaluation strategies
    used in large text retrieval systems and analyzes the performance
    of these strategies. We then discuss several optimization techniques
    that can be used to reduce evaluation costs and present simulation
    results to compare the performance of these optimization techniques
    when evaluating natural language queries with a collection of full text
    legal materials.
Identifiers--KeyWords Plus: INFORMATION - RETRIEVAL ; INVERTED FILES ;
    RANKING
Research Fronts: 94-8188 002
                               ( INFORMATION - RETRIEVAL SYSTEMS;
    SEARCHING LARGE TEXT DATABASES; GENETIC ALGORITHMS; VECTOR-SPACE
    MODEL; RANKING DOCUMENTS)
Cited References:
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CROFT WB, 1981, V32, P451, J AM SOC INFORM SCI CROFT WB, 1991, P32, 14TH P INT C RES DEV GRAEFE G, 1993, V25, P73, COMPUT SURV HARMAN D, 1992, P363, INFORMATION RETRIEVA

HARMAN D, 1990, V41, P581, J AM SOC INFORM SCI HEAPS HS, 1978, INFORMATION RETRIEVA KNAUS D, 1994, P163, 2ND TEXT RETR C GAIT LUCARELLA D, 1983, V6, P25, J INFORM SCI MOFFAT A, 1994, P79, P AUSTALASIAN DATABA MOFFAT A, 1994, P181, 2ND TEXT RETR C GAIT PERRY SA, 1983, V6, P59, J INFORM SCI PERSIN M, 1994, V819, P253, LECTURE NOTES COMPUT PERSIN M, 1994, P339, 17TH P ANN INT C RES SALTON G, 1983, INTRO MODERN INFORMA SALTON G, 1993, P49, 16TH P ANN ACM SIGIR SALTON G, 1994, P9, 3RD P ANN S DOC AN I SMEATON AF, 1981, P83, 4TH P INT ACM SIGIR SMITH ME, 1990, TR901128 DEP COMP SC STANFILL C, 1992, P459, INFORMATION RETRIEVA TURTLE H, 1991, V9, P187, ACM T INFORM SYST TURTLE H, 1994, P212, 17TH P ANN INT ACM S VANRIJSBERGEN CJ, 1979, INFORMATION RETRIEVA WITTEN IH, 1994, MANAGING GIGABYTES WONG WYP, 1993, V29, P647, INFORM PROCESS MANAG

# 17/5/47 (Item 3 from file: 34) DIALOG(R)File 34:SciSearch(R) Cited Ref Sci (c) 2003 Inst for Sci Info. All rts. reserv.

02590911 Genuine Article#: LP018 Number of References: 346
Title: QUERY EVALUATION TECHNIQUES FOR LARGE DATABASES

Author(s): GRAEFE G

Corporate Source: PORTLAND STATE UNIV, DEPT COMP SCI, POB

751/PORTLAND//OR/97207

Journal: COMPUTING SURVEYS, 1993, V25, N2 (JUN), P73-170

ISSN: 0360-0300

Language: ENGLISH Document Type: REVIEW

Geographic Location: USA

Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology &
 Applied Sciences

Journal Subject Category: COMPUTER APPLICATIONS & CYBERNETICS

Abstract: Database management systems will continue to manage large data volumes. Thus, efficient algorithms for accessing and manipulating large sets and sequences will be required to provide acceptable performance. The advent of object-oriented and extensible database systems will not solve this problem. On the contrary, modern data models exacerbate the problem: In order to manipulate large sets of complex objects as efficiently as today's database systems manipulate simple records, query processing algorithms and software will become more complex, and a solid understanding of algorithm and architectural issues is essential for the designer of database management software.

This survey provides a foundation for the design and implementation of query execution facilities in new database management systems. It describes a wide array of practical query evaluation techniques for both relational and postrelational database systems, including iterative execution of complex query evaluation plans, the duality of sort- and hash-based set-matching algorithms, types of parallel query execution and their implementation, and special operators for emerging database application domains.

Descriptors--Author Keywords: ALGORITHMS; PERFORMANCE; COMPLEX QUERY EVALUATION PLANS; DYNAMIC QUERY EVALUATION PLANS; EXTENSIBLE DATABASE SYSTEMS; ITERATORS; OBJECT-ORIENTED DATABASE SYSTEMS; OPERATOR MODEL OF PARALLELIZATION; PARALLEL ALGORITHMS; RELATIONAL DATABASE SYSTEMS; SET-MATCHING ALGORITHMS; SORT-HASH DUALITY

Identifiers--KeyWords Plus: RELATIONAL DATABASES; CONCURRENCY-CONTROL; AGGREGATE FUNCTIONS; BUFFER MANAGEMENT; VALUED ATTRIBUTES; DATA LANGUAGE; DATA MODEL; SYSTEM-R; ALGEBRA; PERFORMANCE

Research Fronts: 91-2055 008 (SPATIAL **DATABASES**; BINARY **SEARCH** TREE; **DATA** ACCESS; ADAPTIVE HASHING; LINEAR OCTREE; GEOGRAPHIC

VANDENBERG SL, 1991, P158, P ACM SIGMOD C NEW Y WALTON CB, 1991, P537, P INT C VERY LARGE D WALTON CB, 1989, 8939 U TEX COMP SCI WHANG KY, 1990, V15, P67, ACM T DATABASE SYST WHANG KY, 1984, V33, P209, IEEE T COMPUT WHANG KY, 1985, P297, QUERY PROCESSING DAT WILLIAMS P, 1988, IMPROVING DATABASE U WILSCHUT AN, 1993, V1, P103, DISTRIB PARALL DATAB WILSCHUT AN, 1993, THESIS U TWEUK NETHE WOLF JL, 1990, JUL P INT S DAT PAR WOLF JL, 1991, P200, P IEEE C DATA ENG NE WOLNIEWICZ RH, 1993, P INT C VERY LARGE D WONG E, 1976, V1, P223, ACM T DATABASE SYST WONG E, 1983, P23, P ACM SIGMOD C NEW Y YANG H, 1987, P245, OCT P INT C VER LARG YU CT, 1984, V16, P399, ACM COMPUT SURV YU L, 1991, P670, P IEEE C DATA ENG ZANIOLO C, 1983, P207, P ACM SIGMOD INT C M ZANIOLO C, 1979, P179, 1979 SIGMOD C P ZELLER H, 1990, P186, P INT C VERY LARGE D ZELLER H, 1990, 35TH COMPC C SAN FRA

# 17/5/48 (Item 4 from file: 34) DIALOG(R)File 34:SciSearch(R) Cited Ref Sci (c) 2003 Inst for Sci Info. All rts. reserv.

Genuine Article#: FG009 Number of References: 14 00922168 Title: SEMANTIC QUERY OPTIMIZATION IN DISTRIBUTED DATABASES Author(s): VANKUIJK HJA; PIJPERS FHE; APERS PMG Corporate Source: UNIV TWENTE, POB 217/7500 AE ENSCHEDE//NETHERLANDS/ Journal: LECTURE NOTES IN COMPUTER SCIENCE, 1990, V468, P295-303 Language: ENGLISH Document Type: ARTICLE Geographic Location: NETHERLANDS Subfile: SciSearch Journal Subject Category: COMPUTER APPLICATIONS & CYBERNETICS Abstract: In this paper, semantic query optimization in distribution database systems is translated into a multilevel search process. overall search process is decomposed in two main stages: (1) guided by the synactic complexity of a query expression, search for an appropriate optimization strategy, (2) given this strategy, transform the query expression into an efficient distributed query evaluation plan . During the second stage, properties of the application being modeled are used to attack a number of problems: detecting inconsistent and redundant selection and join conditions, estimating intermediate and final results, defining and using fragmentation knowledge. An extensible knowledge-based architecture is described to accommodate a variety of existing and future optimization techniques. Research Fronts: 89-2412 001 (DISTRIBUTED DATABASE -MANAGEMENT SYSTEMS; RELATIONAL OUERIES; JOIN INDEX; TRANSACTION PROCESSING; INVERTED FILE )

(Item 3 from file: 8) 25/5/3 DIALOG(R)File 8:Ei Compendex(R) (c) 2003 Elsevier Eng. Info. Inc. All rts. reserv. 05309167 E.I. No: EIP99074709348 Title: Finding information on the World Wide Web: The retrieval effectiveness of search engines Author: Gordon, Michael; Pathak, Praveen Corporate Source: Univ of Michigan, Ann Arbor, MI, USA Source: Information Processing and Management v 35 n 2 1999. p 141-180 Publication Year: 1999 CODEN: IPMADK ISSN: 0306-4573 Language: English Document Type: JA; (Journal Article) Treatment: T; (Theoretical) Journal Announcement: 9908W3 engines are essential for finding information on the Abstract: Search World Wide Web. We conducted a study to see how effective eight search engines are. Expert searchers sought information on the Web for users who had legitimate needs for information, and these users assessed the relevance of the information retrieved . We calculated traditional information retrieval measures of recall and precision at varying numbers of retrieved documents and used these as the bases for statistical comparisons of retrieval effectiveness among the eight search . We also calculated the likelihood document retrieved by one search engine was retrieved by other search engines as well. (Author abstract) 30 Refs. Descriptors: World Wide Web; Online searching; Data acquisition; Data reduction; Statistical methods Identifiers: Search engines Classification Codes: 903.3 (Information Retrieval & Use); 723.2 (Data Processing); 922.2 (Mathematical Statistics) (Computer Software); 903 (Information Science); 922 (Statistical Methods) 72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING); 92 (ENGINEERING MATHEMATICS) (Item 6 from file: 8) 25/5/6 DIALOG(R)File 8:Ei Compendex(R) (c) 2003 Elsevier Eng. Info. Inc. All rts. reserv. E.I. No: EIP96063215669 Title: Computational of partial query results with an adaptive stratified sampling technique Author: Ikeji, Augustine C.; Fotouhi, Farshad Corporate Source: Eastern Michigan Univ, Ypsilanti, MI, USA Conference Title: Proceedings of the 1995 ACM CIKM 4th International Conference on Information and Knowledge Management Location: Baltimore, MD, USA Conference Conference 19951128-19951202 Sponsor: ACM; SIGIR; SIGART E.I. Conference No.: 44794 Source: International Conference on Information and Knowledge Management, Proceedings 1995. ACM, New York, NY, USA. p 145-149 Publication Year: 1995 CODEN: 002176 Language: English Document Type: CA; (Conference Article) Treatment: T; (Theoretical) Journal Announcement: 9608W2 Abstract: An algorithm is proposed for obtaining PQR (partial query results) for non-aggregate queries . The algorithm is based on stratification of the target relation and sampling of the strata over several stages. The experimental performance of the algorithm is presented and compared with other techniques for obtaining partial or entire query results. Results show that the proposed algorithm out-performs the other algorithms by finding more tuples that belong to the result set in the

early stages of the query processing especially when the query

```
selectivity is high or the sample size is at least five percent of the
population size. 14 Refs.
  Descriptors: Query languages; Adaptive algorithms; Computation theory;
Performance ; Data structures; Statistics ; Database systems
  Identifiers: Partial query results; Adaptive stratified sampling;
Stratification; Tuples; Query selectivity
 Classification Codes:
  723.3 (Database Systems); 723.1 (Computer Programming); 721.1
(Computer Theory, Includes Formal Logic, Automata Theory, Switching Theory,
Programming Theory); 723.2 (Data Processing)
 723 (Computer Software); 721 (Computer Circuits & Logic Elements)
 72 (COMPUTERS & DATA PROCESSING)
25/5/7
            (Item 7 from file: 8)
DIALOG(R)File 8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.
04376099
          E.I. No: EIP96043122800
  Title: Microcomputer-based database management system in a university
library
 Author: Siddiqui, Moid A.
 Corporate Source: King Fahd Univ of Petroleum & Minerals Library,
Dhahran, Saudi Arabia
 Source: Microcomputers for Information Management v 12 n 4 1995. p
287-300
 Publication Year: 1995
                ISSN: 0742-2343
 CODEN: MIIMEW
 Language: English
  Document Type: JA; (Journal Article)
                                        Treatment: A; (Applications); G;
(General Review); M; (Management Aspects)
  Journal Announcement: 9605W5
 Abstract: This article describes a database management system (DBMS)
developed in the Reference & Information Services of the King Fahd
University of Petroleum & Minerals (KFUPM) Library in Dhahran, Saudi Arabia
using an IBM PC AT. The objective of creating DBMS was to gather, manage,
sort, and manipulate, efficiently and quickly, online search
statistics . In addition, it reduces time spent on recordkeeping and
maintaining statistical and financial data of online searches . (Author
abstract) 17 Refs.
  Descriptors: Database systems; Microcomputers; Libraries; Societies and
institutions; Information services; Online searching; Statistics; CD-ROM;
 Identifiers: Record keeping; CD-ROM searching; Electronic library
 Classification Codes:
 903.4.1 (Libraries); 901.1.1 (Societies & Institutions)
 723.3 (Database Systems); 722.4 (Digital Computers & Systems); 903.4
(Information Services); 901.1 (Engineering Professional Aspects); 722.1
(Data Storage, Equipment & Techniques)
 723 (Computer Software); 722 (Computer Hardware); 903 (Information
Science); 901 (Engineering Profession)
 72 (COMPUTERS & DATA PROCESSING); 90 (GENERAL ENGINEERING)
25/5/16
            (Item 16 from file: 8)
DIALOG(R) File 8:Ei Compendex(R)
(c) 2003 Elsevier Eng. Info. Inc. All rts. reserv.
          E.I. Monthly No: EI72X012934
00206585
  Title: Criteria for optimum effectiveness of information retrieval
 Author: HEAPS, H. S.
 Corporate Source: Univ of Alberta, Edmonton
 Source: Information and Control v 18 n 2 Mar 1971 p 156-67
 Publication Year: 1971
               ISSN: 0019-9958
 CODEN: IFCNA
 Language: ENGLISH
```

Journal Announcement: 72X0

Abstract: Three measures of effectiveness of an information retrieval system are formulated in terms of a user's estimate of the relevance of items output. In each instance the type of question logic allowed is postulated without specification of certain parameters which denote the weights attached to the question terms. The parameters are then determined to maximise the effectiveness. Their values depond on certain statistics base . The search effectiveness is then optimum for the of the data permitted form of question, the measure of output relevance, and for data bases of similar statistics. The techniques used are analogous to those used to define a matched filter and a Wiener root- mean- square filter.

Descriptors: INFORMATION STORAGE AND RETRIEVAL

Classification Codes:

723 (Computer Software)

72 (COMPUTERS & DATA PROCESSING)

#### 25/5/22 (Item 3 from file: 202)

DIALOG(R) File 202: Info. Sci. & Tech. Abs.

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#### 3202018

An investigation of the relative influences of database informativeness, size and query term specificity on the effectiveness of Medline searching .

Author(s): Heine, M H

Corporate Source: Univ. of Northumbria, Newcastle upon Tyne, England

Journal of Information Science vol. 21, no. 3, pages 173-185

Publication Date: 1995

ISSN: 1352-7460 Language: English

Document Type: Journal Article

Record Type: Abstract

Journal Announcement: 3200

An investigation of search effectiveness in Medline used regression analysis to compare the relative influences on search performance (characterized by Recall, Precision and the MZ-metric) of the three variables: database informativeness, and size and mean specificity of the query . (A " query " is defined as an unstructured set of search terms.) A reduction in random and/or systematic error was sought by means of three experimental devices: (i) error arising from the subjectivity of third-party relevance judges was minimized by using behaviorally-generated target sets of records; (ii) errors associated with the definitions of queries were avoided (or at least standardized) by using algorithmically derived queries , and (iii) error associated with uncontrolled variation in the logical structure of the search expression was minimized by using search expressions that had been optimized separately against each of the three performance criteria referred to. It was found that the dominant variable influencing search performances was the number of query terms. Database informativeness had a statistically significant, but small, influence on search performance in almost all the data-sets, and this influence could be in either direction, depending on the data-set. The influence of term specificity was in general not statistically significant. Overall, the three predicting variables were able to explain up to 50% of the variation in search performance.

Descriptors: Databases; Evaluation; Information retrieval; MEDLINE Classification Codes and Description: 5.11 ( Searching and Retrieval ); 6.06 (Life Sciences and Biomedicine Main Heading: Information Processing and Control; Information Systems and Applications

(Item 1 from file: 65) DIALOG(R) File 65: Inside Conferences (c) 2003 BLDSC all rts. reserv. All rts. reserv.

INSIDE CONFERENCE ITEM ID: CN037530270 03563519

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A New Statistical Method for Performance Evaluation of Search
  Li, L.; Shang, Y.
  CONFERENCE: Tools with artificial intelligence-International conference;
    12th (Twelfth IEEE international conference on tools with artificial
    intelligence)
  IEEE INTERNATIONAL CONFERENCE ON TOOLS WITH ARTIFICIAL INTELLIGENCE,
  2000; 12TH P: 208-215
  IEEE Computer Society Press, 2000
  ISSN: 1082-3409 ISBN: 076950910X; 0769509096; 0769509118
  LANGUAGE: English DOCUMENT TYPE: Conference Preprinted selected papers
    CONFERENCE SPONSOR: IEEE
    CONFERENCE LOCATION: British Columbia, Canada 2000; Nov (200011) (
200011)
  BRITISH LIBRARY ITEM LOCATION: 4362.949970
  NOTE:
    Also known as ICTAI 2000. IEEE cat no 00CB7175
  DESCRIPTORS: tools; IEEE; artificial intelligence; ICTAI
 25/5/26
             (Item 1 from file: 2)
DIALOG(R)File
               2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.
          INSPEC Abstract Number: C2001-05-7250N-011
6889586
  Title: A new method for automatic performance comparison of search
 engines
  Author(s): Li, L.; Shang, Y.
  Author Affiliation: Dept. of Comput. Eng. & Comput. Sci., Missouri Univ.,
Columbia, MO, USA
  Journal: World Wide Web
                            vol.3, no.4
                                            p.241-7
  Publisher: Kluwer Academic Publishers,
  Publication Date: 2000 Country of Publication: Netherlands
  CODEN: WWWEFF ISSN: 1386-145X
  SICI: 1386-145X(2000)3:4L.241:MAPC;1-J
  Material Identity Number: H400-2001-001
  Language: English
                      Document Type: Journal Paper (JP)
  Treatment: New Developments (N); Practical (P)
  Abstract: Presents a new method for automatically comparing the
performance, such as precision, of search engines . Based on queries
randomly selected from a specific domain of interest, the method uses
robots to automatically query the target search engines, evaluates the relevance of the returned links to the query either automatically
based on the vector space model or manually, and then applies statistical
measures, including the probability of win and the Friedman statistic , to
compare the performance of the search engines . We show experimental
results of using the new method on three search engines : AltaVista,
Google and InfoSeek. The method arrived at the same performance comparison
result in applying either the automatic relevance evaluation method or the
manual method. In addition, our results show that the probability of win is
a better metric than the Friedman statistic in performance comparison. The
advantage of the new method is that it is fast, flexible and consistent,
and can adapt to fast-changing search engines .
                                                   (22 Refs)
  Subfile: C
  Descriptors: computer aided software engineering; probability; relevance
feedback; search engines; software performance evaluation; statistics
  Identifiers: automatic performance comparison; search
                                                           engines ;
precision; randomly selected queries; robots; returned link relevance;
vector space model; statistical measures; win probability; Friedman
statistic; AltaVista; Google; InfoSeek; automatic relevance evaluation
method; manual method
  Class Codes: C7250N (Search engines); C1140Z (Other topics in statistics)
; C7430 (Computer engineering); C6110B (Software engineering techniques);
C6115 (Programming support)
  Copyright 2001, IEE
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13557945 PASCAL No.: 98-0259746

Natural language information retrieval : TREC-5 report STRZALKOWSKI T; GUTHRIE L; KARLGREN J; LEISTENSNIDER J; FANG LIN; PEREZ-CARBALLO J; STRASZHEIM T; JIN WANG; JON WILDING VOORHEES E M, ed; HARMAN E M, ed

GE Corporate Research & Development, United States; Lockheed Martin Corporation, United States; Department of Computer Science, New York University, United States; School of Communication, Information and Library Studies, Rutgers University, United States

Information Technology Laboratory, National Institute of Standards and Technology, Gaithersburg, MD 20899-0001, United States

National Institute of Standards and Technology (NIST), Gaithersburg, MD, United States.; Defense Advanced Research Projects Agency (DARPA), Arlington, VA, United States.

TREC-5 Text REtrieval Conference, 5 (Gaithersburg, MD USA) 1996-11-20 Journal: NIST special publication, 1997 (500238) 291-313 ISSN: 1048-776X Availability: INIST-14185; 354000078729490240 No. of Refs.: 11 ref.

Document Type: P (Serial); C (Conference Proceedings); A (Analytic) Country of Publication: United States

Language: English

In this paper we report on the joint GE/Lockheed Martin/Rutgers/NYU natural language information retrieval project as related to the 5th Text Conference (TREC-5). The main thrust of this project is to use Retrieval natural language processing techniques to enhance the effectiveness of full-text document **retrieval** . Since our first TREC entry in 1992 (as NYU team) the basic premise of our research was to demonstrate that robust if relatively shallow NLP can help to derive a better representation issues and towards query development problems. While our TREC-5 system still performs extensive text processing in order to extract phrasal and other indexing terms, our main focus this year was on query construction using sentences, and entire passages to expand initial topic specifications in an attempt to cover their various angles, aspects and contexts. Based on our earlier TREC results indicating that NLP is more effective when long, descriptive queries are used, we allowed for liberal expansion with long passage from related documents imported verbatim into the queries . This method appears to have producted a dramatic improvement in the performance of two different statistical search engines that we tested (Cornell's SMART and NIST's Prise) boosting the average precision by at least 40%. The overall architecture of TREC-5 system has also changed in a number of ways from TREC-4. The most notable new feature is the stream architecture in which several independent, parallel indexes are built for a given collection, each index reflecting a different representation strategy for text documents. Stream indexes are built using a mixture of different indexing approaches, term extracting, and weighting strategies. We used both SMART and Prise base indexing engines, and selected optimal term weighting strategies for each stream, based on a training collection of approximatively 500 MBytes. The final results are produced by a merging procedure that combines ranked list of documents obtained by searching all stream indexes with appropriately preprocessed queries . This allows for an effective combination of alternative retrieval and filtering methods, creating into a meta- search where the contribution of each stream can be optimized through training

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File 275: Gale Group Computer DB(TM) 1983-2003/Jun 10
           (c) 2003 The Gale Group
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  File 369: New Scientist 1994-2003/Jun W1
           (c) 2003 Reed Business Information Ltd.
  File 112:UBM Industry News 1998-2003/Jun 10
           (c) 2003 United Business Media
  Set
         Items
                  Description
                  RULE? ? OR TEMPLATE? ? OR STRATEGY OR STRATEGIES OR FILTER?
  S1
       10900810
                ? OR PLAN OR PLANS OR POLICY OR POLICIES
  S2
                  (PERFORMANCE OR PROFICIEN? OR EFFECTIV? OR EFFICIEN? OR SU-
               CCESS?) (3W) S1 OR S1(3W) PERFORMED
  S3
                 S2(5N)(MEASUR? OR ASSESS? OR EVALUAT? OR ANALYZ? OR ANALYS?
                OR CHECK??? OR GAUG??? OR QUANTIF? OR JUDG???)
  S4
          34616
                  S1 (10N) STATISTIC?
        1842049
  S5
                  DATABASE? ? OR DATA()BASE? ? OR REPOSITOR??? OR SEARCH()EN-
               GINE? ?
  S6
            253
                  S3(S)S5
  S7
             37
                  S3(S)S5(S)(SEARCH??? OR RETRIEV? OR QUER????)
  S8
             26
                  RD (unique items)
  S9
             21
                  S8 NOT PD>20001019
  S10
           1514
                  S4(S)S5
  S11
           196
                  S10(S)(SEARCH??? OR RETRIEV? OR QUER????)
  S12
           1610
                  S2(S)STATISTIC?
  S13
            125
                  S2(S)STATISTIC?(S)(S5 OR SEARCH??? OR RETRIEV? OR QUER????)
  S14
            95
                  RD (unique items)
  S15
            398
                  S2(10N)STATISTIC?
                  S15(S)(S5 OR SEARCH??? OR RETRIEV? OR QUER????)
  S16
             15
  S17
             12
                  RD (unique items)
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  S19
            317
                 S12 AND S18
                  S13 AND S18
  S20
             26
  S21
             19
                  RD (unique items)
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9/9/21 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00603113 92-18216

Oracle Preps Distributed DBMS Pack

O'Brien, Timothy

Network World v9n10 PP: 1, 6 Mar 9, 1992 ISSN: 0887-7661 JRNL CODE:

NWW

DOC TYPE: Journal article LANGUAGE: English LENGTH: 2 Pages

WORD COUNT: 736

ABSTRACT: Oracle Corp. is preparing to introduce an enhanced version of its relational database management system (DBMS). Major improvements are slated Version 7 in the areas of performance, data integrity, query and security that provide true distributed database optimization, capabilities. One key new feature of Version 7 is a 2-phase commit function used to simultaneously update multiple databases. The 2-phase commit is essential for maintaining data integrity across an enterprise net. For users that do not need full online distributed capabilities, Version 7 will provide a snapshot function that allows users to periodically replicate copies of a database and distribute them to remote sites. Version 7 will support location transparency, which means that Standard Query Language (SQL) statements and applications will not have to be rewritten if data is moved. Version 7 also utilizes a feature called Shared SQL, which allows many users to execute the same set of SQL statements, as well as a multithreaded server architecture, which improves support for multiple clients.

TEXT: Redwood Shores, Calif.--Oracle Corp. is readying for the long-awaited introduction of an enhanced version of its relational DBMS that offers broad new distributed data management capabilities.

Previous versions of the database management system have supported data sharing across a net. But internal sources at Oracle last week detailed major improvements slated for Version 7 in the areas of performance, data integrity, query optimization and security that provide true distributed database capabilities.

Company officials said privately that the unveiling of the heralded Version 7 had been pegged for April 27, but acknowledged the announcement could slip to June. Analysts said the product will bring Oracle in line with competitors such as Sybase, Inc. and Ingres Corp., an ASK company.

"Oracle has been behind its competitors and needs this release to keep up and deliver on past promises," said Aaron Zornes, vice-president of application development strategies with the Burlingame, Calif., office of the META Group consultancy.

Version 7 has experienced a number of delays, which Oracle officials claim have resulted from additional testing and quality assurance procedures.

"What will be coming out soon for beta users is going to be a lot more solid than in the past," said an Oracle official.

With an expanded beta test program just getting under way, some company insiders are not expecting Version 7 to ship until at least the third quarter.

#### NEW FEATURES

One key new feature of Version 7 is a two-phase commit function used to simultaneously update multiple databases. The two-phase commit only allows updates when all databases are ready to receive them and is essential for maintaining date integrity across an enterprise net.

With the two-phase commit, distributed databases can be viewed by users and applications as a single, logical database and transparently handle

queries, updates and table replication from anywhere in the network. To use this function, application programs invoke a command to "commit" the transactions and do not need to know the physical location of the data, recovery mechanisms or other aspects of database coordination.

According to the Oracle officials, two-phase commit also allows the company to coexist in a distributed environment with other non-Oracle databases supported by transaction processing monitors, such as IBM's CICS and AT&T's Tuxedo.

For users that do not need full on-line distributed capabilities, Version 7 will provide a "snapshot" function that allows users to periodically replicate copies of a database and distribute them to remote sites. That periodic database refreshment can reduce network traffic.

Version 7 also supports location transparency, which means that SQL statements and applications will not have to be rewritten if data is moved. That transparency is achieved through what Oracle calls database links, which are named objects that provide a path to a remote database.

The product will also support ANSI-compliant "declarative" database integrity rules for both entity and referential integrity. Therefore, users will be able to define the rules by which certain database relationships are enforced in the server without any coding, thereby reducing application development time.

Version 7 also includes the ability to use Oracle's PL/SQL language to define stored procedures and triggers, mechanisms that invoke certain database commands when preestablished conditions have been met.

In addition to providing enhanced data integrity, stored procedures and triggers improve performance in a distributed environment because they can reduce the number of commands transmitted over the network.

According to analysts, one area in which Oracle could improve has been its query optimizer, which ensures that database operations in a network are being coordinated in the most efficient way.

Oracle said this tool was completely overhauled in Version 7. The company will offer a so-called cost-based optimizer and a resource limiter capability to boost performance and improve control over system resources during query execution. The cost-based optimizer chooses the most efficient query execution plan after analyzing database statistics, such as the size of rows and columns.

"Oracle needed to provide a strong query optimizer," said Shaku Atre, president of Atre Consulting in Rye, N.Y. "Now more than ever, you need an

Version 7 also utilizes a feature called Shared SQL, which allows many users to execute the same set of SQL statements, as well as a multithreaded server architecture, which improves support for multiple clients.

These two features reduce memory utilization, shorten application start-up time and decrease the number of operating system processes required as overhead.

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efficient way to know where the data is and how to get it."

9/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
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02092477 SUPPLIER NUMBER: 19535410 (USE FORMAT 7 OR 9 FOR FULL TEXT)
An overview of JDBC. (SunSoft's Java Database Connectivity API) (includes related article on technical notes on Java and JDBC) (Product Support)
Lazer, Bill

Network, v12, n7, p95(4)

July, 1997

LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 3876 LINE COUNT: 00317

Both Statement and PreparedStatement are used when SQL statements are to be presented to the database for execution. When SQL statements are presented to the database, the database creates numerous varying plans by which the new request can be satisfied. (SQL, after all, is a logical language that presents a variety of ways to retrieve the desired data from the underlying physical storage.) After the plans are created, the database 's optimizer evaluates them, selecting the most efficient plan and compiling it into a binary format. A handle to this binary version is returned to the application. The essential difference between the Statement and...

9/3,K/2 (Item 2 from file: 275)

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01499063 SUPPLIER NUMBER: 11953115 (USE FORMAT 7 OR 9 FOR FULL TEXT) Letters. (Letter to the Editor)

Reis, Richard; O'Gara, John; Howard, Joy; Bolza, William F.; Vosburgh, Brian J.; Kanten, Naomi; Tyrrell, Susan; Whetzel, Roger D.

PC Week, v9, n8, p70(3)

Feb 24, 1992

DOCUMENT TYPE: Letter to the Editor ISSN: 0740-1604 LANGUAGE:

ENGLISH RECORD TYPE: FULLTEXT WORD COUNT: 2081 LINE COUNT: 00167

... of experienced on-line searchers, organizations can easily squander valuable resources trying to use commercial databases, often with disappointing results.

Librarians can help determine which databases will best meet an organization's needs, implement efficient retrieval strategies and evaluate their effectiveness. They can serve as intermediaries, performing searches on behalf of clients who do not have the time or inclination to access on-line systems themselves, or they can provide valuable training and support to those who do. They can set up database searches that will automatically retrieve the information on critical issues on a weekly or daily basis, and work with information-systems staff to disseminate this information to the clients' workstations...

9/3,K/3 (Item 3 from file: 275)

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01484427 SUPPLIER NUMBER: 13885545

Intelligent database caching through the use of page-answers and page-traces. (Technical)

Kamel, Nabil; King, Roger

ACM Transactions on Database Systems, v17, n4, p601(46)

Dec, 1992

DOCUMENT TYPE: Technical ISSN: 0362-5915 LANGUAGE: ENGLISH

RECORD TYPE: ABSTRACT

ABSTRACT: A new technique is presented that improves use of main memory

systems; it is based on prestoring a number of query answers in main memory that are evaluated out of a single memory page. The concept of page-answers and page-traces is described, and their properties are examined. A query model is used that supports selection, projection, join, recursive queries, and arbitrary combinations. How to apply the approach under update traffic is shown, which is particularly useful for managing the main memories of an important class of applications, including the evaluation of triggers and alerters, performance improvement or rule -based systems, integrity constraint checking, and materialized views. This is a new type of intelligent database caching in which cache elements are derived data, so they overlap arbitrarily and do not have a fixed length.

9/3,K/4 (Item 1 from file: 621)

DIALOG(R) File 621: Gale Group New Prod. Annou. (R) (c) 2003 The Gale Group. All rts. reserv.

01592527 Supplier Number: 48173618 (USE FORMAT 7 FOR FULLTEXT)

SISCOM, Inc. Announces First Quarter Results for Fiscal 1998

PR Newswire, p1211LATH012

Dec 11, 1997

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 726

... digital video hardware, CDSS unites large quantities of statistical and video information into a useful coaching tool. An interface with the NBA's courtside logging database allows coaches to display pertinent game statistics in a variety of customized, easy-to-use graphical formats. By applying specific "filter criteria" to their queries -- such as period, point spread and player matchups -- coaches quickly gain the insight they need to assess player performance, design strategies, analyze opponents and set goals.

CDSS adds value to industry-standard digital video technologies from Sony and FAST Electronic U.S., giving NBA teams the powerful...

9/3,K/5 (Item 1 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

04566104 Supplier Number: 57779325 (USE FORMAT 7 FOR FULLTEXT)
EU/UN: WORLD WATER DAY AND PROPOSAL FOR A SOCIAL CHARTER ON WATER. (World

EU/UN: WORLD WATER DAY AND PROPOSAL FOR A SOCIAL CHARTER ON WATER.(World Commission on Water)

Europe Environment, pNA

March 30, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 4737

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...a political agreement on these two texts on December 21, 1998 (see Europe Environments No 536 and 540). The first of these proposals provides for assessing the effectiveness of the EU strategy to limit CO2 emissions from motor vehicles, and improve fuel-saving. Under this draft Decision establishing a programme for monitoring average carbon dioxide emissions from...using the Internet as a major mechanism for information sharing and dissemination...XX:The two Agencies have joined forces in a series of fields, establishing data bases and other information tools in a coherent and structured fashion, a process that required both parties to resolve problems linked to terminology. They have undertaken...was initially developed for the EEA by Italy's Consiglio Nazionale delle Ricerche (CNR) and Germany's Umwelt-Bundesamt (UBA) as a reference, indexing and retrieval tool for the EEA catalogue of data sources and other data bases, and has since been adopted by the US-EPA as the reference thesaurus for its Terminology Reference System (TRS). The

American agency participated directly in...emerging information technologies (development of intelligent software agents operating over the Internet). It is hoped the EDEN project will support a dynamic environment in which data bases can be added or removed without affecting the basic behaviour of the system. The project will be developed from a small initial group of data bases but will provide for the incorporation of additional databases: GEMET will serve as a reference for mapping activities...MM:ENVE..II:0542..DD:19990330..AA:414..TT:STILL NO EVIDENCE OF BSE TRANSMISSION THROUGH...

9/3,K/6 (Item 2 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
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04020110 Supplier Number: 53246580 (USE FORMAT 7 FOR FULLTEXT)
-BAAN COMPANY: Baan announces Euro Scan, a software consulting package to assist with transition to euro.

M2 Presswire, pNA

Nov 20, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 769

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...Portugal and Spain. Every enterprise system is a unique combination of hardware, system resources, standard components and customised software. This can make it difficult to **analyse** and create an **effective plan** for euro-compliance. But Baan Euro Scan, based on technology from BaanWeb partner Baan Business Optimization, effectively provides customers with their own software 'euro consultant...

...migration issues into perspective. Baan Euro Scan collects relevant data about a company's enterprise IT infrastructure. It analyses information on hardware platform, operating system, database, CPU and disk capacity, to advise on issues such as the disk space required for migration to the euro. Baan Euro Scan also retrieves information on installed software versions, customised components, porting sets and VRC structure: this information is used to establish how many euro-related transactions run on...

#### 9/3,K/7 (Item 3 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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04009165 Supplier Number: 53183936 (USE FORMAT 7 FOR FULLTEXT)

-ORACLE: Oracle announces industry's only comprehensive data warehousing solution.

M2 Presswire, pNA

Nov 4, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 1828

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...solution consisting of a solid technology foundation and analytic applications. This end-to-end approach enables fast implementations and a quicker return on investment." Pioneering Database Technologies: Oracle8i technology makes data warehousing faster and simpler with more data and more users. "Summary management" presummarises data for faster results, while "hash partitioning" spreads data across database partitions for faster access. "Transportable table spaces" moves large volumes of data directly between databases, without importing or exporting. "Functional indexes" allow the indexing of derived or calculated data without actually storing the derived data. Also new: Resource management, improved...
...any question. Web Business Intelligence includes newly integrated

releases of Oracle Reports, Oracle's enterprise reporting tool; Oracle Discoverer, Oracle's award-winning ad hoc query and analysis tool; and Oracle Express, Oracle's industry-leading enterprise OLAP engine. Metadata Strategy: Metadata, or the information about enterprise data, has emerged as...

...and, now, Sun Solaris. DMS2 includes Data Mart Designer, which models data marts; Data Mart Builder, which manages implementations; Discoverer, for end-user ad hoc query and analysis; Oracle Web Application Server, to drive Web-based data surfing; and Oracle Reports and Reports Server, for dynamic Web reporting. Also included: Oracle8 Enterprise Edition, the world's most trusted database. In addition to Oracle's industry leading technology foundation, Oracle provides a set of analytic applications that present a precise, ongoing picture of where you...and more. Oracle Financial Analyzer 6.2 delivers ready-to-go tools that centralise management data and help financial executives track key indicators, control costs, analyse performance, evaluate opportunities, plan future directions, and more. Both products fully leverage data in Oracle Applications and other supported ERP suites. Oracle makes it easy for customers to take...

9/3,K/8 (Item 4 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

03913832 Supplier Number: 50125452 (USE FORMAT 7 FOR FULLTEXT)
-MICRO COMPUTER SYSTEMS: Customer service of excellence - e-mail flood under control

M2 Presswire, pN/A

July 2, 1998

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 790

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...the same time the program automatically sends a return receipt with customizable text to the originator of the message quoting the transaction ID for possible **query**. Comprehensive set-up and configuration tools as well as flexible filter options ensure customised configuration of the software to perform the fully automated routing of...

...supervisors to continuously monitor the e-mail load and the company's response performance. Statistics cover pre-definable time periods for precise analysis and accurate **measurement** of each operator's individual **performance**. Further **filter** options allow supervisors to set priorities to specific e-mails for immediate action. With "CalypsoGram", a tool for sending condensed, telegram style e-mail messages...

...accounts targeted at the professional e-mail user as well as Calypso Autolink, a 100% Pure Java certified high-end application for automatic despatch of **database** information in form of e-mail messages or FTP files. Since its foundation in 1980 US-based Micro Computer Systems, Inc. develops and markets a...

### 9/3,K/9 (Item 5 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

02792115 Supplier Number: 45664537 (USE FORMAT 7 FOR FULLTEXT)
PLATINUM TECHNOLOGY RELEASES JAPANESE TRANSLATED VERSIONS OF PERFORMANCE
MANAGEMENT TOOLS

M2 Presswire, pN/A

July 12, 1995

Language: English Record Type: Fulltext

Document Type: Newswire; Trade

Word Count: 686

... The Products The three translated products perform a number of performance management tasks: \* PLATINUM Detector is an application performance analysis tools for DB2 for MVS databases. It identifies the applications and Structured Query Language (SQL) statements that are most heavily used, and consume most of the resources, in a DB2 system. This helps DBAs determine which applications and SQL statements need to be "tuned" (modified) to improve system performance.

PLATINUM Plan Analyser (PPA) is an application performance

PLATINUM Plan Analyser (PPA) is an application performance analysis, monitoring, and management tools for DB2 for MVS databases. It analyses DB2 plans (control structures used to process SQL statements), DBRMs (database request modules - data set members containing information about SQL statements), packages (a single DBRM, ready for processing), and individual SQL statements. PPA identifies the path...

9/3,K/10 (Item 6 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM)

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01862204 Supplier Number: 43197861 (USE FORMAT 7 FOR FULLTEXT)

SILVERPLATTER OFFERS TRAINING PROGRAM

Multimedia Publisher, v3, n8, pN/A

August, 1992

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 207

... Boston Area

October 29 - Chicago, Online Conference

Other dates and locations will be announced later this year. Topics covered in the training program include: effective searching of databases using PC SPIRS use of boolean operators a thesauri searches a tips for faster and more effective searching search strategy formulation and analysis 9 database structure.

According to Gerry Hurley, coordinator of the Training Program at SilverPlatter, "CD-ROM provides users with access to enormous amounts of information. The training...

9/3,K/11 (Item 7 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

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01455067 Supplier Number: 41968330 (USE FORMAT 7 FOR FULLTEXT)

TRENDS IN CORPORATE DATABASE APPLICATIONS--PART III

Financial Technology Insight, pN/A

April, 1991

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2767

... potential performance gain for an efficiently formulated query may be an order of magnitude or more.

If users had a full understanding of the underlying database architecture, then they would be able to ensure that their queries were always formulated for efficient processing. This is an unrealistic expectation, of course, and in any case runs counter to the philosophy of making the use of IT more transparent. It has proved possible, however to devise software which can optimize queries automatically. Although this itself adds to the processing load, the performance gains may still be substantial. In fact, it is usually impractical to find the strictly optimal query processing strategy, as to do this would probably use more processing time than it could possibly save. Instead, query optimizers are designed to produced 'reasonably' efficient processing strategies .

It is difficult to **assess** the benefits of new technologies without reliable means of measuring performance. A number of standard **database** 

benchmarks have been developed for this purpose, and to evaluate system requirements. Unfortunately, they do not reproduce the kind of transaction load more typical of new applications, and so are no longer the reliable quides. Knowledge-based decision support systems may involve transactions over sets of database records, rather than individual ones. In some cases, these sets may be extremely large, containing perhaps tens, or hundreds of thousands, of records. New benchmarks...

(Item 1 from file: 16) 9/3,K/12 DIALOG(R) File 16: Gale Group PROMT(R) (c) 2003 The Gale Group. All rts. reserv.

05803350 Supplier Number: 50295634 (USE FORMAT 7 FOR FULLTEXT)

The Music Man

Rasmusson, Erika

Sales & Marketing Management, v150, p22

Sept, 1998

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 1653

the summer. Arista (which does not have a stake in the actual Fair itself) has high hopes that the Lilith Fair CD will be equally successful , and business strategy and analysis have played a large role in marketing the CD. In addition to promoting the album through standard print buys and point of sale materials, the...

... Martin's job 'is to be the point person and make sure it all fits together.' But it was his idea to tap Ticketmaster's database and send direct mail pieces to Fair ticket buyers from last year; and charge-by-phone ticket buyers from this year. Additional elements of the...

...release last April; offering the CD as a give-away for radio promotions of Lilith Fair; and tying in the album with 14 nationwide talent searches for the Fair. 'We look at Lilith Fair as an opportunity to fuel record sales,' Martin says simply.

With 500,000 copies sold, Martin considers...

(Item 1 from file: 160) 9/3, K/13DIALOG(R) File 160: Gale Group PROMT(R) (c) 1999 The Gale Group. All rts. reserv.

01046729

Manager search goes on-line.

Pensions & Investment Age June 11, 1984 p. 481

Online retrieval systems begin to simplify pension funds' choice of investment managers. Selecting the right manager has been difficult and time consuming for funds, since the process...

... and processing detailed questionnaires and many personal interviews. However, plans are increasingly tracking and screening managers' performances via computers, and some firms are making their databases available to others. Berg Fiduciary Consultants will begin selling its Plan Sponsor Network (PSN), a joint venture of P Berg, pres, and B Effron, pres

...to coordinate input from plan sponsors and investment managers to ensure that the system meets all needs PSN's goal is to create a standardized compatible with various computer models that could be used by database other consultants as well as plan sponsors. The systems functions will include financial forecasting, asset modeling, asset allocation, screening evaluation , investment portfolio performance evaluation investment strategy development and evaluation of investment alternatives. Many other details are given.

9/3,K/14 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

12347400 SUPPLIER NUMBER: 61755299 (USE FORMAT 7 OR 9 FOR FULL TEXT) A Survey of Internet Searches and Their Results.

Barnett, Andy

Reference & User Services Quarterly, 39, 2, 177

Winter, 1999

ISSN: 1094-9054 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 3295 LINE COUNT: 00259

#### TEXT

...hundred Internet searches using Magellan Voyeur, and then reentered the searches in Magellan and Hotbot. We categorized the searches by the search operators used, including search engine math, phrase searches, Boolean logic, natural word searches, and Web address searches. Here we assess the relative success of the various strategies, as well as the implications for user education.

#### 9/3,K/15 (Item 2 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

10571692 SUPPLIER NUMBER: 53132115 (USE FORMAT 7 OR 9 FOR FULL TEXT) How Well Do Physicians Use Electronic Information Retrieval Systems? Hersh, W.; Hickam, D.H.

JAMA, The Journal of the American Medical Association, 1347(1)

Oct 21, 1998

ISSN: 0098-7484 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 6377 LINE COUNT: 00571

ABSTRACT: Health sciences librarians are generally more effective than physicians at retrieving information from electronic medical databases. Researchers examined studies assessing the effectiveness of online search strategies in obtaining medical articles relevant to the user's interest. Using databases such as MEDLINE, Library and Information Science (LISA) bibliographies, and other sources, librarians obtained articles 58% relevant to their topic of interest, compared to 49% relevance for material obtained in physician-initiated searches. Database searches often returned no articles, or irrelevant articles, frequently resulting from the incorrect use of subheadings when searching by index terms. Keyword and free-text searching was generally effective and preferred by end-users.

#### 9/3,K/16 (Item 3 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

10431616 SUPPLIER NUMBER: 21074322 (USE FORMAT 7 OR 9 FOR FULL TEXT)

From the Field.

Rasmusson, Erika

Sales & Marketing Management, v150, n9, p22

Sep, 1998

ISSN: 0163-7517 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 1769 LINE COUNT: 00136

... the summer. Arista (which does not have a stake in the actual Fair itself) has high hopes that the Lilith Fair CD will be equally successful, and business strategy and analysis have played a large role in marketing the CD. in addition to promoting the album through standard print buys and point of sale materials, the...

...Martin's job "is to be the point person and make sure it all fits together." But it was his idea to tap Ticketmaster's database and send

direct mail pieces to Fair ticket buyers from last year; and charge-by-phone ticket buyers from this year. Additional elements of the...

...release last April; offering the CD as a give-away for radio promotions of Lilith Fair; and tying in the album with 14 nationwide talent **searches** for the Fair. "We look at Lilith Fair as an opportunity to fuel record sales," Martin says simply.

With 500,000 copies sold, Martin considers...

9/3,K/17 (Item 4 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

09881274 SUPPLIER NUMBER: 20009641 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Siscom, Inc. to Provide Coaching Decision Support System To Eight National
Basketball Association Teams During 1997-98 Season

PR Newswire, pl124LAM024

Nov 24, 1997

LANGUAGE: English RECORD TYPE: Fulltext WORD COUNT: 848 LINE COUNT: 00076

... digital video hardware, CDSS unites large quantities of statistical and video information into a useful coaching tool. An interface with the NBA's courtside logging database allows coaches to display pertinent game statistics in a variety of customized, easy-to-use graphical formats. By applying specific "filter criteria" to their queries -- such as period, point spread and player matchups -- coaches quickly gain the insight they need to assess player performance, design strategies, analyze opponents and set goals.

CDSS adds value to industry-standard digital video technologies from Sony and FAST Electronic U.S., giving teams the powerful ability...

9/3,K/18 (Item 5 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

07587140 SUPPLIER NUMBER: 15926245 (USE FORMAT 7 OR 9 FOR FULL TEXT) The effectiveness of four interventions for the prevention of low back pain.

Lahad, Amnon; Malter, Alex D.; Berg, Alfred O.; Deyo, Richard A. JAMA, The Journal of the American Medical Association, v272, n16, p1286(6) Oct 26, 1994

ISSN: 0098-7484 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 6575 LINE COUNT: 00529

AUTHOR ABSTRACT: Objective.--Low back pain affects 60% to 80% of US adults at some time during their lives. This review evaluates the effectiveness of four strategies to prevent low back pain for asymptomatic individuals: back and aerobic exercises, education, mechanical supports (corsets), and risk factor modification. Data Sources.--The MEDLINE database was searched for all relevant articles published in English between 1966 and 1993. Bibliographies of identified articles were searched to ensure that all pertinent articles had been gathered and back pain specialists reviewed our final bibliography for completeness. Study Selection and Data Extraction.--A...

#### 9/3,K/19 (Item 1 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

02495036 117543622

The manager's guide to internal control: diary of a control freak

Pickett, K H Spencer

Management Decision v37n2 PP: 93 1999

ISSN: 0025-1747 JRNL CODE: MGD

WORD COUNT: 90354

... TEXT: a stroke by the time he got back to England.

Jack asked; "Why do you feel compliance teams are the answer?"

"Well, control is about **checking** up on past **performance** and **assessing** whether standards are being adhered to. Managers are more interested in coaching staff for future performance and encouraging development. Therefore, let the auditors do this...is important. A diagram will provide an example of this (Figure 36):"

"This model suggests that we need general information that is held in corporate databases. It includes policy documents, strategic intentions, performance targets, company trends and so on. If we have to make 20 per cent budget cuts in our...

### 9/3,K/20 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

00630839 92-45779

### Binding Propagation Beyond the Reach of Rule/Goal Graphs

Han, Jiawei

Information Processing Letters v42n5 PP: 263-268 Jul 3, 1992

ISSN: 0020-0190 JRNL CODE: IPL

ABSTRACT: Rule/goal graphs have been popularly used in the analysis of binding propagation in deductive **databases**. Some interesting techniques, such as the Magic rule rewriting and its variations, have been developed on such an analysis. Binding propagation in linear recursions is...

... a linear recursion into a set of highly regular rewritten rules that capture the binding propagated in both forward and backward directions among different expansions. **Efficient query evaluation rules** can be generated based on the analysis of the rewritten rules. ...

#### 9/3,K/21 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00603113 92-18216

#### Oracle Preps Distributed DBMS Pack

O'Brien, Timothy

Network World v9n10 PP: 1, 6 Mar 9, 1992

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 736

...TEXT: The company will offer a so-called cost-based optimizer and a resource limiter capability to boost performance and improve control over system resources during query execution. The cost-based optimizer chooses the most efficient query execution plan after analyzing database statistics, such as the size of rows and columns.

17/3,K/1 (Item 1 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

02513425 SUPPLIER NUMBER: 75644894 (USE FORMAT 7 OR 9 FOR FULL TEXT)

E-Global Library: The Academic Campus Library Meets the Internet. (Technology Information)

Heilig, Jean M.

Searcher, 9, 6, 34

June, 2001

ISSN: 1070-4795 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 5496 LINE COUNT: 00478

... Decimal Classification System and the Library of Congress Classification System.

The Internet 101 tutorial instructs students on how to do research on the Internet: developing effective search strategies; locating business, government, and statistical information; finding images; the hidden Internet; evaluating Internet information; and citing Internet sources. Business 101 teaches students how to perform business research on the Internet...

17/3,K/2 (Item 2 from file: 275)

DIALOG(R) File 275: Gale Group Computer DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

01608115 SUPPLIER NUMBER: 14037151 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Business community primes for parallel; hardware, software suppliers pushing parallel database as commercial entree. (database management systems for parallel processing architectures)

Francett, Barbara

Software Magazine, v13, n10, p63(6)

July, 1993

ISSN: 0897-8085 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT

WORD COUNT: 3772 LINE COUNT: 00310

... for delivery this summer, when Windows NT becomes available. Exabyte plans to use the system to gather test data for all its products and perform statistical processing to determine trends and realtime performance variances. "We plan to run the same query against both the existing and new WinServer system and compare the results," Dillman said.

This solution should improve decision support performance and system responsiveness, Dillman...

17/3,K/3 (Item 1 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

04164299 Supplier Number: 54557234 (USE FORMAT 7 FOR FULLTEXT)

News in Brief.

Management Consultant International, pNA

April 15, 1999

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 977

A DATABASE for benchmarking 82 of the UK's leading management consultancies has been launched, offering statistics on performance on 182 issues. Policy Publications allows companies to answer a detailed questionnaire, which will then set them against the industry average in criteria including success of new pitches, a...

17/3,K/4 (Item 2 from file: 636)

DIALOG(R)File 636:Gale Group Newsletter DB(TM)

(c) 2003 The Gale Group. All rts. reserv.

01175289 Supplier Number: 41043882 (USE FORMAT 7 FOR FULLTEXT)

Aregon raises the heat with TS-STAR ... Dealing With Technology, v2, n2, pN/A

Dog 1000

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Trade

Word Count: 999

... the time series data.

Anumber of differenttypes of strategy lines are available including data selection (used to select the data items requiredfrom the time series database), parameters (which are used during the strategydesignand evaluation stages to specify items such as moving average filter values, the size of atrade to be executed etc.), calculations (that perform the strategy), tradeanalysis (theoutputof the strategy as a decision to trade) and statistics (which are used in theevaluation process to determine the likely performance of the strategy in real-life operation).

TS-STAR provides a wide range of arithmetic, logical and specialist statistical functions which may be incorporated into calculation lines. Organisations...

17/3,K/5 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

04807384 Supplier Number: 47073357 Regional Bank Index - Industry Report Investext, p1-2

Jan 28, 1997

Language: English Record Type: Abstract

Document Type: Magazine/Journal; Trade

#### ABSTRACT:

...it will acquire First USA for \$7.3 billion. Strategically, the deal will enhance Banc One's credit-card operation, which is important to a successful consumer banking strategy .x0D Tables in report: Comparative Statistics 1994-98; MSRBI Fundamentals/Measures 1992-98x0D The INVESTEXT database offers the full text of this report online (RN=2529017). To order printed copies, CALL (800) 662-7878, (212) 484-4700 US, (071) 815-3860...

17/3,K/6 (Item 1 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

02392766 140744571

Youth unemployment outflow rates and labor market programs: Australian evidence

Leeves, Gareth

Contemporary Economic Policy v20n3 PP: 301-315 Jul 2002

ISSN: 1074-3529 JRNL CODE: CPI

WORD COUNT: 6946

...TEXT: 1993, 1995), Boeri (1994), Van der Linden et al. (1995), Boeri and Burda (1996), Gora et al. (1996), among others, which asserts that to be successful a largescale policy measure should be reflected in a statistically significant positive correlation between such a measure and outflows from unemployment to employment. Some studies have acknowledged the importance of duration of unemployment by including stocks of long-term unemployed as an explanatory variable to capture the state dependency of search effectiveness. Van der Linden et al. (1995) used stocks of unemployment disaggregated by duration in the construction of their dependent variables. None of the previous...

DIALOG(R)File 15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01804872 04-55863

Mining fool's gold

McQueen, Grant; Thorley, Steven

Financial Analysts Journal v55n2 PP: 61-72 Mar/Apr 1999

ISSN: 0015-198X JRNL CODE: FIA

WORD COUNT: 8200

...TEXT: Higgins or Knowles and Petty (which we call intergenerational mining).8 The inability to assess the significance of a trading rule found after extensive collective **searching** has been dubbed the "file drawer problem" by Iyengar and Greenhouse (1988) and "data mining" by Merton (1987), Black (1986, 1993), and Lo and MacKinlay (1990).9 Essentially, the true **statistical** significance of **successful** investment **strategies** can be assessed only after quantification of the number of unreported or unpublished failures gathering dust in the file drawers of stock market analysts, traders...

17/3,K/8 (Item 3 from file: 15)

DIALOG(R) File 15: ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

01724637 03-75627

#### Diminishing returns

Edlin, Bob

Management-Auckland v45n9 PP: 84 Oct 1998

ISSN: 0025-1658 JRNL CODE: MNZ

WORD COUNT: 874

...TEXT: and more. But, as shown by the statistics, "we are not keeping up. Our market share has slipped in most of the key markets."

The statistics indicate something is amiss and our apparent poor performance poses key policy challenges. One response is the Government's review of the producer boards. It may also be time for a rethink of the role of the government institutions dealing with trade and of attitudes towards international expansion by the SOEs, the Institute said. More importantly, "a bit of soul- searching by New Zealand businesses would not go amiss".

17/3,K/9 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

(c) 2003 ProQuest Info&Learning. All rts. reserv.

01327057 99-76453

A database perspective on knowledge discovery

Imielinski, Tomasz; Mannila, Heikki

Communications of the ACM v39n11 PP: 58-64 Nov 1996

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 4512

 $\dots$ TEXT: just as SQL queries can be embedded in host languages such as C or Cobol.

The proposed research program is as follows: First a KDD query language has to be formally defined (prompting questions about desired expressive power, and so forth), then query optimization tools would be developed to compile queries into reasonably efficient execution plans. These execution plans will include existing inductive learning and statistical data analysis algorithms and may include new inductive tools as well. Note how this plan essentially mirrors the development of query languages and query optimization in relational databases.

Thus, in our view, database mining is not simply another buzzword for

statistical data analysis or inductive learning on large data sets. The key new...

17/3,K/10 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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00603113 92-18216

Oracle Preps Distributed DBMS Pack

O'Brien, Timothy

Network World v9n10 PP: 1, 6 Mar 9, 1992

ISSN: 0887-7661 JRNL CODE: NWW

WORD COUNT: 736

...TEXT: The company will offer a so-called cost-based optimizer and a resource limiter capability to boost performance and improve control over system resources during query execution. The cost-based optimizer chooses the most efficient query execution plan after analyzing database statistics, such as the size of rows and columns.

"Oracle needed to provide a strong query optimizer," said Shaku Atre, president of Atre Consulting in Rye...

17/3,K/11 (Item 6 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00590845 92-06018

Using Decision Support Systems to Market Prepaid Medical Plans

Forgionne, Guisseppi A.

Journal of Health Care Marketing v11n4 PP: 22-38 Dec 1991

ISSN: 0737-3252 JRNL CODE: JHC

...ABSTRACT: marketing information and convert the information into market-effective health plans. The inputs into DSS processing are data that are captured and stored in a database and models that are secured and saved in a modelbase. The decision maker uses computer technology within the DSS to: 1. organize the collected data, 2. structure the statistical and simulation models, and 3. simulate performance from specified plan designs. The computer technology consists of a microcomputer linked through a modem with communications software to a minicomputer or mainframe. The DSS processing generates statistical...

17/3,K/12 (Item 7 from file: 15)

DIALOG(R) File 15:ABI/Inform(R)

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00052698 77-05045

DATABASE MANAGEMENT SYSTEM IMPROVES OPERATING EFFICIENCY

BEST'S REVIEW (PROP/CASUALTY) V77 N11 PP: 79-82 MAR. 1977

JRNL CODE: BIP

ABSTRACT: A NEW COMPUTER COMPLEX WHICH EMPLOYS THE **DATABASE** MANAGEMENT CONCEPT IS HELPING THE STATESMAN GROUP OF INSURANCE COMPANIES TO IMPROVE THE EFFICIENCY OF ITS OPERATIONS AND SIMULTANEOUSLY TO UPGRADE THE QUALITY OF ITS...

...THE U.S. PRESENT APPLICATIONS ARE PROCESSING AUTOMOBILE, FIRE, CASUALTY, AND LIFE INSURANCE POLICIES, PREMIUM AND AGENCY ACCOUNTING, CLAIMS AND RESERVES ACCOUNTING, AND PREPARATION OF STATISTICS. TWO IMMEDIATE BENEFITS WILL BE FASTER CLAIMS PROCESSING AND MORE EFFICIENT PROCESSING OF POLICY INFORMATION. THE DATA BASE WILL CONSIST PRIMARILY OF POLICY INFORMATION, CUSTOMER NAMES, ADDRESSES, AND DETAILS OF THEIR POLICIES. THE COMPUTER ALSO PREPARES A SERIES OF MONTHLY MANAGEMENT REPORTS OUTLINING...

21/3,K/1 (Item 1 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

02667534 SUPPLIER NUMBER: 93955237 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Our Environment: part 2, governments, laws, and organizations.

Keiser, Barbie E.

Searcher, 10, 10, 54(10)

Nov-Dec, 2002

ISSN: 1070-4795 LANGUAGE: English RECORD TYPE: Fulltext

WORD COUNT: 5959 LINE COUNT: 00786

... OECD home page (http://www.oecd.org), provides governments with the analytical basis to develop policies that are effective and economically efficient, including through country performance reviews, data collection, policy analysis, projections and modelling, and the development of common approaches." Search the OECD Web site (http://www.oecd.org/ search ) for all documents published within the Theme = Environment. (When we last checked, there were 1,628 documents available from the OECD Environment Directorate.) Key Environmental Indicators and other statistical data related to the environment can be found in the OECD Statistics Portal, also located on the left-hand navigation bar of the OECD home page (http://www.oecd.org).

\* The European Environment Agency (http://www.eea...current issue, plus archives, are accessible online.

Organizations Concerned with the Environment

As a source of information and expert assistance, we need to distinguish between **organizations** that issue **policy** papers dealing with many social issues, including the environment, versus those that might be considered "activist" on behalf of environmental concerns. For instance, the Cato...

21/3,K/2 (Item 1 from file: 636)

DIALOG(R) File 636: Gale Group Newsletter DB(TM) (c) 2003 The Gale Group. All rts. reserv.

02562628 Supplier Number: 45172496 (USE FORMAT 7 FOR FULLTEXT)

UNDERSTANDING BACKUPS FE A Business Perspective

Computer Audit Update, pN/A

Dec, 1994

Language: English Record Type: Fulltext

Document Type: Newsletter; Trade

Word Count: 2134

(USE FORMAT 7 FOR FULLTEXT)

TEXT:

...even a minor mishap with computers or their data can result in severe business disruption (and, ultimately, the complete disruption or failure of the business). Statistics from a number of sources (DTI, Loughborough University, IBM amongst others) show that as many as 70% of companies suffering some form of computer failure...

...data. The protection of data is only necessary as it relates to the ongoing operation of the business. Since a computer is usually the sole repository of the data it contains (there are no written copies) then backing up that data becomes a business issue. Strategic issues A backup strategy must...For example, a company may have a server with 300 Megabytes of application software (such a total being quickly reached with Word Processor, Spreadsheet, Graphics, Database and other products) but only, say, 100 Megabytes of business-critical data. This means that 75% of every backup is wasted; or, to put it...

...cost. And that additional backup cost is not just in time to take the backup (itself potentially considerable) but also in media cost and in retrieve time. This last mentioned item is particularly relevant when users are keen to recover a single file. Having to scan through 400 Mbytes of data clearly takes longer than scanning just 100. These additional costs

and times often fool the company into thinking it cannot afford to implement a fully **effective** backup **strategy** incorporating the best in off-site and security. Management issues It can be seen from the foregoing that there are potential technical issues surrounding backup...

...to survival following some form of disaster it must form part of the organization's overall planning for crisis. The extent to which any given organization plans for disaster depends on its size as well as its particular place in the market. Clearly, some organizations have more to lose or are at...need it. Backups save lives - or at least backups save companies and businesses which, for some, is as good as saving a life. Yet the statistics continue to show that most organizations are not sufficiently protected against computer data loss. Overcoming the chore today is never going to succeed as the...

21/3,K/3 (Item 1 from file: 16)
DIALOG(R)File 16:Gale Group PROMT(R)
(c) 2003 The Gale Group. All rts. reserv.

10103901 Supplier Number: 91210664 (USE FORMAT 7 FOR FULLTEXT)
Online toolkits for Web development activities. (Web Site Management).
Guenther, Kim

Online, v26, n5, p82(4)

Sept-Oct, 2002

Language: English Record Type: Fulltext

Document Type: Magazine/Journal; Professional Trade

Word Count: 2804

... name and/or number at the end of each file name.

This same strategy can be applied to designate color use within your template. The **templates** I support within my **organization** reference a matrix of 54 browser-safe colors. We not only provide this color matrix to in-house developers to pick their template colors, we...

...another location on the server, or onto another server entirely. This has tremendous advantages if you decide to serve up these assets from a backend database or choose to cache these files for more efficient loading on the server. Single-source referencing allows more efficient caching of template assets on the user's desktop, since images used more than once on the corporate Web site are referenced from a single location. Single-source referencing also allows easier restriction of these files from search engine indexing and server traffic logs so that the files don't get "counted" with your overall site statistics report.

From an in-house developer perspective, single-source referencing makes it easier to "search and replace" directory path statements throughout the entire site using...

#### 21/3,K/4 (Item 1 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

10592601 SUPPLIER NUMBER: 53177608 (USE FORMAT 7 OR 9 FOR FULL TEXT) Energy.com Offers Consulting Services to the Energy Industry.

Business Wire, 1104

Nov 5, 1998

LANGUAGE: English RECORD TYPE: Fulltext WORD COUNT: 452 LINE COUNT: 00046

... improvement, project management performance, and cost modeling.

The transition to a deregulated energy market offers both challenge and opportunity. The Energy.com consultants recast market strategies, products and services, and organizational structures to capitalize on this opportunity.

Process improvement is one element of managing change to improve business performance. The process improvement program is implemented to...

...proven project management processes and tools.

One element of managing processes, businesses or projects is cost management. Energy.com's consultants use proprietary energy industry databases and tools to assist clients with cost modeling, factoring in known and predicted quantities and tasks. The tools include extensive data collected on the North American energy industry, predictive and statistical analyses and a depth of executive experience to allow analysis from different perspectives as well as the implementation of effective strategies to deal with predicted scenarios.

Energy.com Corp. offers an Internet-based energy resource, www.energy.com, dedicated to serving energy consumers' needs through news

21/3,K/5 (Item 2 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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08933940 SUPPLIER NUMBER: 18601815 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Assessing the merit of merit pay: employee reactions to performance-based
pay.

Lowery, Christopher M.; Petty, M.M.; Thompson, James W. Human Resource Planning, v19, n1, p26(12)

March, 1996

ISSN: 0199-8986 LANGUAGE: English RECORD TYPE: Fulltext; Abstract WORD COUNT: 6775 LINE COUNT: 00555

... Mejia and Balki, 1989; Kahn and Sherer, 1990; Kopelman, Rovenpor, and Cayer, 1991).

Though a great deal of research has been conducted on merit pay, searching for statistically significant relationships among the relevant variables, employees who have worked under a merit pay system have been given little opportunity to express in their own words what they think of this reward system. This paper reports on a performance -based pay plan implemented in a large company and employees' reactions to the plan. Through the medium of open-ended questions, employees were given a chance to voice...presents a major obstacle in the implementation of performance-based pay plans, a dilemma that must be resolved for merit pay to be successful.

In **order** for a merit pay **plan** to be successfully implemented, a condition of reward contingency must exist. Performance-contingent rewards are necessary. It is imperative that employees perceive a link between... objectives, to the detriment of helping fellow workers, as the accomplishment of individual goals was supposedly linked directly to higher pay. However, funding for the **plan** was based in part on **organizational** goals; the desire to achieve these organizational goals could foster teamwork.

When the responses in Table 2 were broken down according to job level, there...Variables: A Field Experiment." Academy of Management Journal, 25(2) (1982), 359-372.

Jenkins, G.D., & E.E. Lawler, "Impact of Employee Participation in Pay Plan Development." Organizational Behavior and Human Performance, 28 (1981), 111-128.

Johnson, A.M., and N.D. Hobart, "Why is it So Hard to Pay for Performance?" Journal...

## 21/3,K/6 (Item 3 from file: 148) DIALOG(R)File 148:Gale Group Trade & Industry DB

(c) 2003 The Gale Group. All rts. reserv.

08814611 SUPPLIER NUMBER: 17102301 (USE FORMAT 7 OR 9 FOR FULL TEXT) The world price of foreign exchange risk.

Dumas, Bernard; Solnik, Bruno

Journal of Finance, v50, n2, p445(35)

June, 1995

ISSN: 0022-1082 LANGUAGE: English RECORD TYPE: Fulltext; Abstract

WORD COUNT: 12789 LINE COUNT: 01129

the MRS is a nonlinear function of consumption and consumption may be a nonlinear function of returns. (27) To illustrate the role played by the strategy space in deriving first- order conditions, consider the problem of writing the unconditional efficiency of a portfolio policy among the strategies with portfolio weights that are linear in the information... 1993, The performance of international strategies using conditioning information, Journal of Empirical Finance 1, 33-56. Stehle, R., 1977, An empirical test of the alternative hypotheses of national and international pricing...

21/3,K/7 (Item 4 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

07813615 SUPPLIER NUMBER: 17016936 (USE FORMAT 7 OR 9 FOR FULL TEXT) Claims database research. (Continuing Education)

Briesacher, Becky A.; Erwin, W. Gary; Cornwell, Stephen American Druggist, v211, n6, p48(8)

April, 1995

ISSN: 0190-5279 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 4774 LINE COUNT: 00401

to preserve-confidentiality, encourage self-improvement since physicians can compare their performance to their peers and adjust accordingly. These reports also identify physicians who violate organizational policies , such as prescribing nonformulary drugs or prescribing only branded products when generics are available. In such cases, the physician is generally targeted for an intervention...

...such as timely refills.

CONCLUSION

Pharmacists can perform important roles as agents of information and intervention for PBMS, insurers, and MCOS. Research using insurance claims databases is growing in capabilities, statistical sophistication, and influence. Researchers from all areas of health care are looking to claims data for accessible effectiveness information to determine the nonclinical trial costs of illnesses, the cost- effectiveness of alternative treatment plans, and the optimal outcomes of available therapies. MCOS are beginning to recognize the capital represented by their databases and are investing more time, manpower, and resources into developing and using them. Companies are emerging with the sole business of gathering and selling automated...

21/3,K/8 (Item 5 from file: 148)

DIALOG(R) File 148: Gale Group Trade & Industry DB (c) 2003 The Gale Group. All rts. reserv.

(USE FORMAT 7 OR 9 FOR FULL TEXT) 07609517 SUPPLIER NUMBER: 15914518 TARGET for the biomedical searcher. (DIALOG online database searching technique)

Snow, Bonnie

Online, v18, n6, p58(6)

Nov-Dec, 1994

LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT ISSN: 0146-5422

WORD COUNT: 2412 LINE COUNT: 00244

able to assign them greater "weight," bringing citations with a higher occurrence of endpoints and/or outcomes to the top of the list. TARGET PLUS RANK FOR ASSISTANCE IN STRATEGY FORMULATION

One of the most powerful applications of TARGET is to isolate relevant bibliography information for organized analyses of index terms via RANK. A search...

...in output from each approach can be eliminated using NOT. A sample of titles retrieved using patent classification versus concept keywords shows the value of RANKed indexing analysis to help with strategy formulation. TARGET paves the way by focusing the analysis on a manageable, pre-screened subset.

Techniques can also be applied in biomedical databases. First, use TARGET to locate a few good references, then RANK DE for statistical assessment of indexing terms. This combination of two search "power tools" is highly effective when constructing precision strategies.

TIPS ON TECHNIQUE

Knowing more about how TARGET really works will help experienced searchers manipulate the system to derive maximum benefit from this feature. First...

21/3,K/9 (Item 6 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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07291520 SUPPLIER NUMBER: 15405546 (USE FORMAT 7 OR 9 FOR FULL TEXT)
Is there milk and honey in the promised land?: A profile of investing in
Israel. (Silver Anniversary Essays)

Bonwitt, Gil J.

Law and Policy in International Business, 25, n2, 491-515

Wntr, 1994

ISSN: 0023-9208 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 10061 LINE COUNT: 00816

... Development, Investment Incentives and Disincentive and the International Process (1983); Investment Incentives and Performance Requirements (S. Guisinger ed. 1985) [hereinafter Investment Incentives]; Kojo Yelpaala, In **Search** of **Effective Policies** for Foreign Direct Investment: Alternatives to Tax Incentive Policies, 7 N.W. J. Int'l L. & Bus. 208 (1985); Ibrahim F.I. Shihata, Factors Influencing...

...1986) [hereinafter Maturing Through Crises]. (16.) Id. at 1 . (17.) Israel has a population of close to 5.2 million people. See Central, Bureau of Statistics, Statistical Abstract of Israel 1993 (1993). (18.) U.S. Dept. of Com., Overseas Business Reports: Marketing in Israel 9 (1988) [hereinafter Marketing in Israel]. (19). Such...Feb. 15 1989). (58.) The Israeli court system has joined the legislative and executive branch in opening the country's markets. Israel's Supreme Court ruled against longstanding exclusivity agreements in order to open the Israel's market to more competition. Israeli Supreme Court Ruling Open Markets to Parallel Import, Wider Range of Products, 7 Int'l...

21/3,K/10 (Item 7 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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06515984 SUPPLIER NUMBER: 14174397 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Japan's growing capabilities in industrial technology: implications for

U.S. managers and policymakers.

Mowery, David C.; Teece, David J.

California Management Review, v35, n2, p9(26)

Wntr, 1993

ISSN: 0008-1256 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT; ABSTRACT WORD COUNT: 8844 LINE COUNT: 00757

... and K. Yamamura, "Japan's Technological Capabilities and Its Future: Overview and Assessments," in G. Heiduk and K. Yamamura, eds., Technological Competition and Interdependence: The **Search** for Policy in the United States, West Germany, and Japan (Seattle, WA: University of Washington Press, 1990). It is also possible, although there is no...

...Product Development in the World Automobile Industry," Brookings Papers on Economic Activity (1987), pp. 729-771. [10.] K. B. Clark and T. Fujimoto, Product Development **Performance**: **Strategy**, **Organization**, and Management in the World Auto Industry (Boston, MA: Harvard Business

School Press, 1991). [11.] E. Mansfield, "Industrial Innovation in Japan and the United States...quantitative terms, than that of the American universities but comparable to that of European universities." L. Stenberg, "Molecular Beam Epitaxy - A Mesoview of Japanese Research Organization," unpublished manuscript, Research Policy Institute, University of Lund, Sweden, 1990, p. 56. [18.] We are indebted to Dr. Takebi Otsubo of the Nomura School of Advanced Management for his...firms. [33.] P.A. Genther and D. Dalton, "Japanese Affiliated Electronics Companies and U.S. Technological Development: 1990 Assessment," Office of Business Analysis, Economics and Statistics Administration, U.S. Department of Commerce, August 1991. [34.] D.C. Mowery, "Public Policy Influences on the Formation of International Joint Ventures," International Trade Journal...

21/3,K/11 (Item 8 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c) 2003 The Gale Group. All rts. reserv.

05926406 SUPPLIER NUMBER: 13606451 (USE FORMAT 7 OR 9 FOR FULL TEXT) Cross-national differences in trade union membership in OECD countries.

(Organization of Economic Cooperation and Development)

Bean, Ron; Holden, Ken

Industrial Relations Journal, v23, n1, p52(8)

Spring, 1992

ISSN: 0019-8692 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 4112 LINE COUNT: 00347

and political unrest which had appeared to threaten the very fabric of society in these countries, the compromises secured became underwritten by governments with compulsory rules in order to institutionalise industrial conflict[8]. Price and Bain's approach to the analysis of union growth concludes that economic variables are likely to be more...F., Union Growth and the Business Cycle: An Econometric Analysis, Blackwell, 1976.
[3.] Bain, G. S. and Price, R., Profiles of Union Growth: A Comparative Statistical Portrait Of Eight Countries, Blackwell, 1980. [4.] Hobsbawm, E. J., Labouring Men, Weidenfeld and Nicholson, 1964, p. 127. [5.] Pederson, P. D., 'Union Growth in...

...Political Determinants of Trade Union Growth in Selected OECD Countries: An Update', Journal of Industrial Relations, 31, 1989, pp. 402-6. [10.] Visser, J., In Search of Inclusive Unionism. A Comparative Analysis, University of Amsterdam, 1987, p. 90. [11.] Clegg, Hugh, Trade Unionism Under Collective Bargaining, Blackwell, 1976. [12.] Blyth, C...

...W. J. and Gregory, M. B., 'Bargaining Structure', Management Decision, 18, 1980, p. 113. [14.] Calmfors, L. and Driffill, J., 'Bargaining Structure, Corporatism and Macroeconomic **Performance**', Economic **Policy**, 6, 1988, p. 17. [15.] Ibid., p. 16. [16.] Visser, 'Trade Unionism in Western Europe', p. 151. [17.] Beaumont, P. B., The Decline of Trade...

...1985. [20.] Saunders, P. and Klau, F., 'The Role of the Public Sector', OECD Economic Studies, Paris, 1985, p. 63. Annual figures from OECD, Historical Statistics, 1960-1986, 1988. [21.] Bain, G. S. and Price, R., 'Union Growth: Dimensions, Determinants and Density', in Bain, G. S. (ed.), Industrial Relations in Britain...

21/3,K/12 (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
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05798273 SUPPLIER NUMBER: 11892638 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Competitive strategy for successful hospital management.

Cleverley, William O.

Hospital & Health Services Administration, v37, n1, p53(17)

nospital a nearth services Administration, vs., hi, pss(1/)

Spring, 1992

ISSN: 8750-3735 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT

WORD COUNT: 4952 LINE COUNT: 00438

... and cost reimbursement to one in which competitive factors influence virtually all strategic decisions.

Health care executives who fail to recognize competitive factors in their **strategy** formulation and implementation expose their **organization** to risk of financial losses and even failure. In a 1990 survey conducted by Deloitte & Touche, 43 percent of 1,765 responding hospital executives believed...

 $\dots$  or (3) seeking financial support from a third party, such as a governmental agency, to subsidize financial deficiencies.

Methods

For this investigation, empirical observations of successful strategies have been drawn from a data base of 1,025 hospitals that operate in the largest markets in the United States. All of the hospitals in our universe are defined as "large urban hospitals" under the Medicare prospective payment system. This means that they operate in metropolitan statistical areas that have populations exceeding one million.

The data presented is for 1988 only and was obtained using the Healthcare Financial Management Association's (HFMA...

21/3,K/13 (Item 10 from file: 148)

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04622217 SUPPLIER NUMBER: 09167785 (USE FORMAT 7 OR 9 FOR FULL TEXT)

Large signal design: performance and simulation of a 3W C-band GaAs power

MMIC. (Monolithic Microwave Integrated Circuit)

White, Paul M.; Curtice, Walter R.; Hendrickson, Mary A.; Chang, Wayne H. Microwave Journal, v33, n4, p235(7)

April, 1990

ISSN: 0192-6225 LANGUAGE: ENGLISH RECORD TYPE: FULLTEXT WORD COUNT: 3510 LINE COUNT: 00276

... Accurate FET models are the basis of successful first-pass MMIC design. The models used in this design, both small and large signal, were derived statistically from measurements on test FETs located on the PCM chips. Test FETs of 50 to 150 micron unit gate width and total gate width over the range from 100 to 600 microns were used in order to verify the scaling rules. All measurements were performed on-wafer using a Cascade Microtech Inc. microwave probe station and a DC probe station. We believe that this approach of characterizing small FETs is...

...cold, or unbiased, FET eveluation and Fukui measurements are necessary in establishing accurate unambiguous FET models. [3] All data were stored automatically on a computer database for later parameter extraction. Small signal FET models were established for each FET layout tested and the results scaled to 1 mm gate width using...

21/3,K/14 (Item 1 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02554545 256234731

Normativity and self-presentation: Theoretical bases of self-presentation training for evaluation situations

Beauvois, Jean-Leon; Dubois, Nicole

Journal of Managerial Psychology v16n7/8 PP: 490-508 2001

ISSN: 0268-3946 JRNL CODE: JMN

WORD COUNT: 8919

...TEXT: alcohol drinking in certain youth groups, devoting a lot of time to dress in other groups, and so on). The effectiveness of a self-presentation strategy based on this sort of "local" norm is doubtful. The picture is very different when it comes to judgment norms - precisely, ones like consistency or internality - especially when the

clearsightedness? These preliminary remarks being made, the question may now be raised as to whether social psychologists in **search** of practical applications could design training materials aimed at explicitly making potential "evaluees" (job seekers, for example) more clearsighted, that is, more aware of the normativity of certain judgments, in such a way that after training, they would be able to adopt more **effective** normative self-presentation **strategies** when under evaluation (as in a job interview). From the moment one agrees that clearsightedness is a social skill, the training would obey the principle...

... norm of internality led certain French social psychologists to propose "training in internality", whose chances of being effective, albeit not yet demonstrated using the standard **statistical** techniques, are very high (Pansu et al., 1998).

This article is based on the idea that training courses of this type are both feasible and...

#### 21/3,K/15 (Item 2 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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02392766 140744571

## Youth unemployment outflow rates and labor market programs: Australian evidence

Leeves, Gareth

Contemporary Economic Policy v20n3 PP: 301-315 Jul 2002

ISSN: 1074-3529 JRNL CODE: CPI

WORD COUNT: 6946

...TEXT: 1993, 1995), Boeri (1994), Van der Linden et al. (1995), Boeri and Burda (1996), Gora et al. (1996), among others, which asserts that to be successful a largescale policy measure should be reflected in a statistically significant positive correlation between such a measure and outflows from unemployment to employment. Some studies have acknowledged the importance of duration of unemployment by including stocks of long-term unemployed as an explanatory variable to capture the state dependency of search effectiveness. Van der Linden et al. (1995) used stocks of unemployment disaggregated by duration in the construction of their dependent variables. None of the previous...Reports, AGPS, Canberra, 3(2), 1991.

Gora, M., H. Lehmann, M. Socha, and U. Sztanderska. "Labor Market Policies in Poland," in Lessons

from Labor Market **Policies** in the Transition Countries, **Organisation** for Economic Cooperation and Development. Paris, 1996.

Haskel, J., and R. Jackman. "Long-Term Unemployment in Britain and the Effects of the Community Programme." Oxford...

### 21/3,K/16 (Item 3 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01804872 04-55863

#### Mining fool's gold

McQueen, Grant; Thorley, Steven

Financial Analysts Journal v55n2 PP: 61-72 Mar/Apr 1999

ISSN: 0015-198X JRNL CODE: FIA

WORD COUNT: 8200

...TEXT: was popularized by O'Higgins and Downes (1992) in Beating the Dow, which was first published in 1991.3  $\,$ 

Grandfather: Dow Five. The Dow Five strategy calls for an additional

sort of the 10 Dow Dividend stocks by price and then for buying each year an equally weighted portfolio of the 5 lowest priced stocks within... Higgins or Knowles and Petty (which we call intergenerational mining).8 The inability to assess the significance of a trading rule found after extensive collective searching has been dubbed the "file drawer problem" by Iyengar and Greenhouse (1988) and "data mining" by Merton (1987), Black (1986, 1993), and Lo and MacKinlay (1990).9 Essentially, the true statistical significance of successful investment strategies can be assessed only after quantification of the number of unreported or unpublished failures gathering dust in the file drawers of stock market analysts, traders...

21/3,K/17 (Item 4 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01593358 02-44347

Mixed strategy pricing behaviour in the UK package tour industry

Taylor, Peter

International Journal of the Economics of Business v5n1 PP: 29-46 Feb

1998

ISSN: 0962-1369 JRNL CODE: INJE

WORD COUNT: 9142

TEXT: Headnote:

ABSTRACT In a market, such as that for package tours, in which products are weakly differentiated and information is fuzzy, consumers may adopt **search** behaviour such that **effectively**, they play mixed **strategies** in the selection of the product that they choose to purchase. Tour operators' best response to this behaviour is mixed strategy pricing. Mixed strategy pricing...

... the application of rules of thumb. Strong evidence is found of the form that one operator, at least, produced a pattern of variances that is statistically significant and that could not result from the method of analysis adopted in the paper or from an ad hoc allocation of its fixed costs... of choice, are likely to do so over a 'lifetime', and after 'lifetime' search costs have been considered. The individual consumer thus adopts a search strategy of much the same sort as used in a game against Nature, such as in oil drilling decisions.

A Simple Model

A simple model can be formulated in which a...resort, the proportions necessary for an overall mixed strategy can be obtained by setting different price profiles for each hotel across the season. Thus in **order** to achieve mixed **strategy** pricing, a significant portfolio of hotels is necessary. This provides a more convincing reason for why operators want to achieve high market shares than the...

21/3,K/18 (Item 5 from file: 15)

DIALOG(R)File 15:ABI/Inform(R)

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01327057 99-76453

A database perspective on knowledge discovery

Imielinski, Tomasz; Mannila, Heikki

Communications of the ACM v39n11 PP: 58-64 Nov 1996

ISSN: 0001-0782 JRNL CODE: ACM

WORD COUNT: 4512

 $\dots$ TEXT: just as SQL queries can be embedded in host languages such as C or Cobol.

The proposed research program is as follows: First a KDD query language

has to be formally defined (prompting questions about desired expressive power, and so forth), then **query** optimization tools would be developed to compile **queries** into reasonably **efficient** execution **plans**. These execution plans will include existing inductive learning and **statistical** data analysis algorithms and may include new inductive tools as well. Note how this plan essentially mirrors the development of **query** languages and **query** optimization in relational **databases**.

Thus, in our view, database mining is not simply another buzzword for statistical data analysis or inductive learning on large data sets. The key new...used as rule query evaluators.

There is a simple observation often used to make the running time of rule generation dependent on the number of rules produced. In order to generate a propositional rule of the form, Body ==> Consequent, we first measure support (number of tuples) satisfying the body of the rule-a conjunct of descriptors-then we measure support of the conjunct which is a conjunction of Body and Consequent. We divide the former by the latter to get the rule confidence.

In **order** to generate a massive number of rules that satisfy the rule query conditions, we first generate a number of frequent conjuncts along with their support...

21/3,K/19 (Item 6 from file: 15)
DIALOG(R)File 15:ABI/Inform(R)

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01049286 96-98679

Organizational restructuring and economic performance in leveraged buyouts: An ex post study

Phan, Phillip H; Hill, Charles W L

Academy of Management Journal v38n3 PP: 704-739 Jun 1995

ISSN: 0001-4273 JRNL CODE: AMA

WORD COUNT: 11576

... TEXT: satisfaction, improves their performance, and thus can be expected to improve the performance of a firm (Child, 1984). Third, decentralization strategy for tightening control within an can be viewed as a organization (Child, 1984; Williamson, 1975). Quasi-autonomous subunits, such as work groups, departments, and divisions can be controlled by monitoring their output and holding members accountable...manager cadres are expensive to maintain, such reduction, so long as effective operations are not compromised, will increase efficiency. Third, a shift to a flatter organization can reinforce a policy of decentralization. Doing away with middle management layers forces increased accountability. For all of the reasons mentioned earlier, with regard to decentralization, this can be ... management holdings. This model was used to test Hypotheses 2 to 5. (Model 1 omitted) Model 2, in which we regressed the change in an organizational characteristic (a measure of strategy or structure) against the change in the level of debt, management holdings, and goals, was used to test Hypotheses 6 through 9, 11 through 14...

... a public exchange after their buyouts or that returned to the public domain several years later.

Data Sources

Detailed publicly available data pertaining to the **performance** and **strategy** of LBO targets is not always available because most LBOs result in firms going 100 percent private. Moreover, detailed information relating to internal organizational dimensions, such as decentralization and hierarchical complexity, cannot be gleaned from public **databases**. Thus, a questionnaire survey presented itself as the only feasible way of collecting detailed data for a large enough sample of LBO firms to undertake **statistical** hypothesis testing.